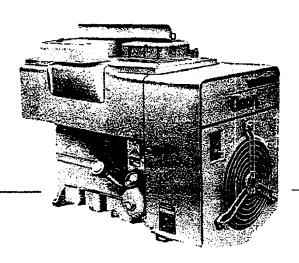
Onan

Parts Manual

JB-JC Engine

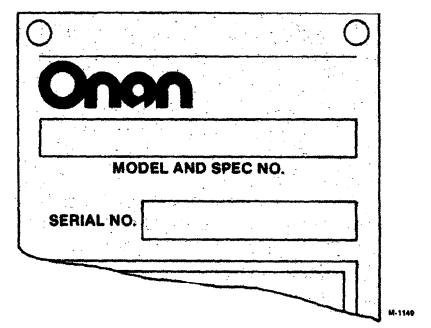


967-0254 JB (SPEC A-T) JC (SPEC A-V) 9-74 Printed in U.S.A

General Information

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate



For handy reference, insert "YOUR" nameplate information in the spaces above.

This parts catalog applies to the standard J-Series Industrial Engines as listed in the Engine Data Table. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for the group. Parts illustrations represent typical items and do not necessarily portray a particular part number. Compare your engine nameplate MODEL and SPEC NO. with the Engine Data Table. Select the quantity used column (B or C in the last column) that applies to your engine MODEL and SPEC NO.

Many parts are interchangeable between the 2-cylinder and 4-cylinder engines. The quantity used per engine varies, therefore the quantity used column is sub-divided. Use column B for quantity used on 2-cylinder models and column C for quantity used on 4-cylinder models. Unless otherwise mentioned in the parts description, parts are interchangeable between the various models on which they are used as indicated by the quantity used column. Right and left sides are determined when facing the blower (front) end of the engine.

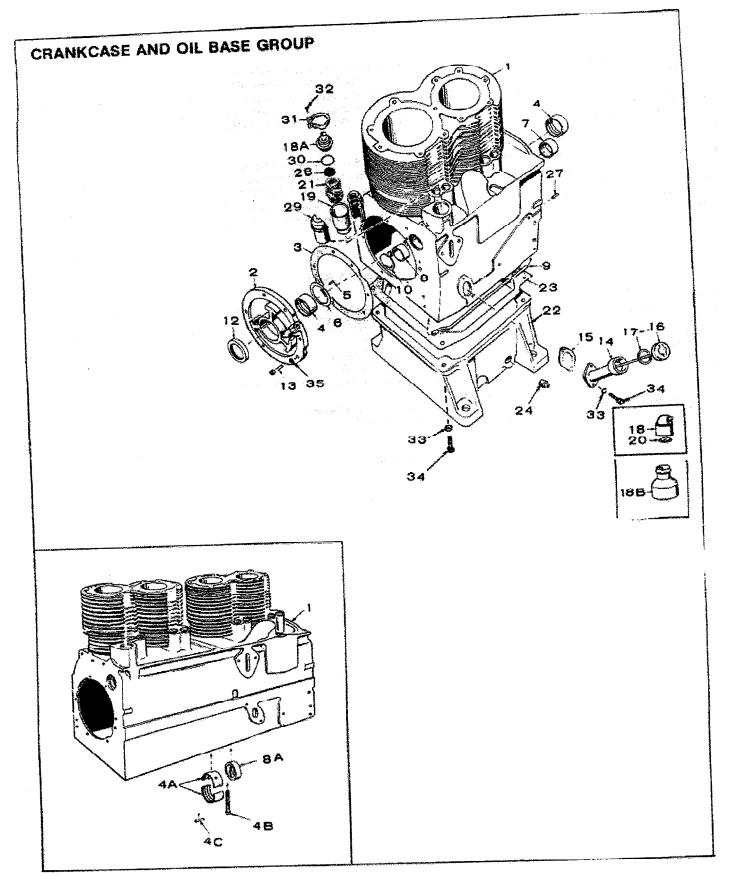
ENGINE DATA TABLE

MODEL NO. AND	NUMBER OF	GUANTITY USED	MODEL NO. AND	NUMBER OF	QUANTITY USED
SPECIFICATION	CYLINDERS	COLUMN	SPECIFICATION	CYLINDERS	COLUMN
J8-S/* J8-MF/*£ JB-MS/*	2 2 2	8 8 8	JC-S/* JC-MF/*E JC-MS/*	4 4 4	ccc

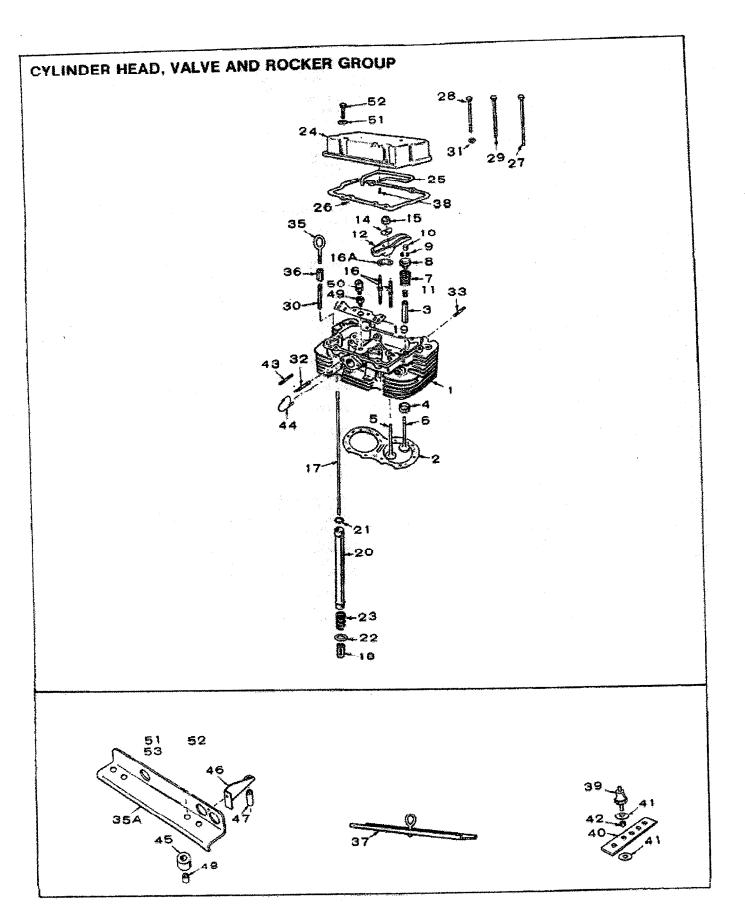
The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.
 The Specification Number identifies optional equipment on special models.

NOTE: JB engines were formerly known as J60 and JC engines were J120.

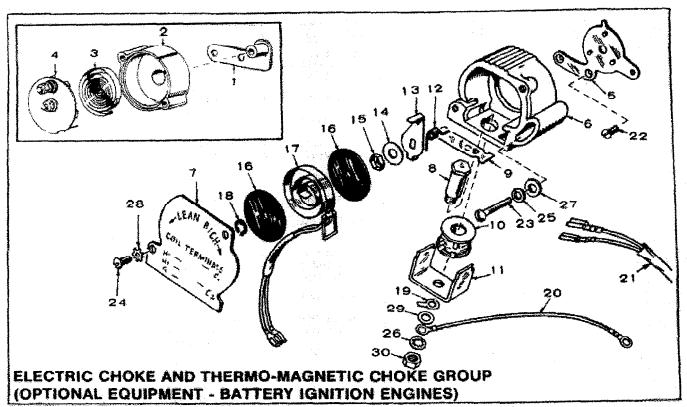
^{£ -} MF Models have optional clutch.



REF.	PART NO.	QT B	Υ. <u>c</u>	PART DESCRIPTION		REF.	PART NO.	QTY.	<u>c</u>	PART DESCRIPTION
1	110-1324	1		Block Assembly, Cylinder -		16	123-0698		i	Cap and Indicator
•	110 1007	•		includes Parts Marked *	l		123-0191		1	Gasket, Cap
1	110-1329		1	Block Assembly, Cylinder -	l	18	CAP, BREA	THER TUE	E	
•			-	Includes Parts Marked *	1		123-0458	1		Spec A through D
				(Manual Start)	1		123-0787	1		Spec E through R
1	110-1328		1	Block Assembly, Cylinder -			123-0458		1	Spec A through E
•			•	Includes Parts Marked			123-0787		1	Spec F through S
				(Electrical Start)	1	18A	123-1203	1		Cap and Valve Assembly,
2	101-0337	ŧ	1	Plate, Bearing (Less Bearing	1					Breather - Begin Spec S
•-	101 0001	•	•	and Pins)	1	188	123-1168		1	Cap, Breather - Begin Spec T
3	101-0386	1	1	Gasket and Shim Kit, Rear	1	19	TUBE, BRE	ATHER		
-	101-0000	•	•	Bearing Plate	1		123-0645	1		Spec A through R
	DEADING DE	o and a	ION I	MAIN-FRONT OR REAR			123-0952	1		Begin Spec S
4	101-0359	2		*Standard	1	19	123-0645		ŧ	Tube, Breather - Spec A
	101-0359-02	ž	2	.002" Undersize	1					through S
	101-0359-10	2	2	.010" Undersize	1	20	123-0315	1		Valve, Breather - Spec A
	101-0359-20	2	2	.020" Undersize	1					through R
	101-0359-20	2	2	030" Lindersize		21	123-1140	1		Baffle, Breather
64				SION, MAIN-CENTER	-	21	123-1140		1	Bartie, Breather - Spec A
7817	101-0361	2501 5 7 1		*Standard	1					through S
	101-0361-02		2	.002" Undersize	1	22	102-0448	1		Base, Oil
	101-0361-10		2	.010" Undersize	1	22	102-0477		1	Base, Oil
	101-0361-20		2	.020" Undersize	.1	23	102-0451	1		Gasket, Base
	101-0361-30		2	.030" Undersize	1	23	102-0475		1	Gasket, Base
48	101-0342		2	'Bolt, Center Main Bearing		24	505-0056	1	1	Plug
70	101 0072		**	Housing	1	27	516-0141	2	2	*Pin, Gear Cover Locating
4C	516-0149		2	*Pin, Center Main Bearing	1	28	123-1153	7		Screen, Breather - Begin
	3.2.4.4		-	Housing	1					Spec S
5	516-0072	4	4	*Pin, Crankshaft Thrust		29	123-0998	2		Insulator (Half), Breather -
				Washer						Begin Spec S
6	104-0420	2	2	*Washer, Crankshaft Thrust	1	30	509-0117	1		Seal, "O" Ring - Breather -
7	101-0363	7	1	*Bearing, Precision Camshaft -	1					Begin Spec S
				Front - Standard Size Only	1	31	518-0268	1		Clamp, Breather Insulator
8	101-0365	1	1	*Bearing, Precision Camshaft,	1					Begin Spec S
				Rear - Standard Size Only	1	32	809-0035	1		Screw, Breather Clamp -
8A	101-0364		1	'Bearing, Precision Camshaft,	1					Begin Spec S
				Center - Standard Size Only	1	33			_	
9	120-0553	1		*Tube, Crankcase Oil			850-0045	3	2	Oil Fill Tube Mounting
9	120-0586		1	*Tube, Crankcase Oil - Front			850-0055	4	10	Oil Base Mounting
9	120-0585		7	*Tube, Crankcase Oil - Rear		34	SCREW, H		_	
10	517-0053	1	1	*Plug. Camshaft Opening			800-0021	2	2	
12	509-0086	1	1	Seal, Oil, Crankshaft Rear			800-0073	4		Qil Base Mounting
13	805-0019	6	6	*Bolt, Place - Rear Bearing			800-0072	_	10	
				Plate (3/8-16 x 1-1/4")	1	35	526-0245	6	6	Washer, Flat - Rear Bearing
14	123-0649	1	1	Tube, Oil Fill				_		Plate Mounting
15	123-0667	1	1	Gasket, Oil Fill Tube Mounting		36	102-0588	1		Heater, Oil Base (Opher of
16	123-0651	1		Cap and Indicator	1	•	- included	in Cylinde	ιB	lock Assembly.



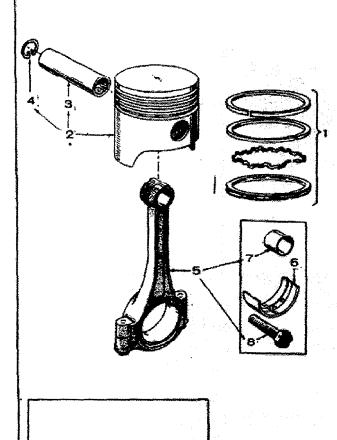
REF.	PART NO.	Q1 B	ry.	PART DESCRIPTION	REF.	PART NO.	B	c	PART DESCRIPTION
1	HEAD, GYLIN 110-1212	DER	2	Gasoline Engines		115-0146 COVER, ROI	4	8	Spring, Shield Retainer
	110-1440	4	2	Gas & Gas-Gasoline Engines	£**	115-0134	1	2	Gasoline Engines (Less Oil
2	110-1223	*	2	Gasket, Head		115-0.54	*	*	Line)
3	GUIDE. VALV			Activities and A. Character		115-0173	1	2	Gas and Gas-Gasoline
•		_		Intake and Exhaust, Gasoline		.,5-0,.0	•	~	Engines (With Oil Line)
				Engines	25	120-0628	i	2	Line, Oil, Rocker Cover -
	110-1501	4	8	Standard					Gasotine Engines Only
	110-1501-01	4	8	.001" Oversize	26	115-0130	1	2	Gasket, Rocker Cover
	110-1501-05	4	8	Intake, Gas and Gas-Gasoline	27	110-1225	5	10	Screw (3/8-16 x 4-3/4") -
				Engines	*				Cylinder Head
	110-1501	2	4	Standard	28	110-0815	4	8	Screw (3/8-16 x 2").
	110-1501-01	2	4	.001" Oversize			1	_	Cylinder Head
	110-1501-05	5	4	.005" Oversize	29	110-1282	2	4	Screw (3/8-16 x 4").
				Exhaust, Gas and Ges-	20	enn nene	1	2	Cylinder Head Stud, Cylinder Head (Only
	110 1202	•	4	Gasoline Engines Standard	30	520-0626	•	æ	With Eyebolt and Extension
	110-1392	2	4	.001" Oversize					Nut)
	110-1392-01 110-1392-05	2	4	.005" Oversize	24	526-0174	6	12	Washer, Cylinder Head
4	INSERT, VAL			.oco Oversize	31 32	520-0526	2	2	Stud, Carburetor
7	*******	دويه ښا ۷		Intake, Gasoline Engines	33	520-0608	4	8	Stud, Exhaust Manifold
	110-1214	3	4	Standard	35	020 000	1	*	Bolt, Lifting (Order 403-0707)
	110-1214-02	ž	4	.002" Oversize		403-0707	j		Bracket, Lifting - Includes
	110-1214-05	2	4	.005" Oversize		****			Hardware
	110-1214-10	2	4	.010" Oversize	35A	403-0690		1	Bracket, Litting
	110-1214-25	2	4	.025" Oversize	36	110-1304	1		Nut, Extension (Only on
				Intake, Stellite, Gas-					Models with Lifting Eye)
				Gasoline Engines	36	403-0620		2	Nut, Extension - Spec A
	110-1287	2	4	Standard					through H
	110-1287-02	2	4	.002" Oversize	37			1	Bar Assembly, Lifting -
	110-1287-05	2	4	.005" Oversize					Spec A through H Order
	110-1287-10	2	4	.010" Oversize					403-0690, (2) 800-0091
	110-1287-25	2	4	.025" Oversize			_	_	and (2) 850-0060 Screw, Oil Line, Rocker Cover
	110-1215	2	- 4	Standard	38 39	800-0042 309-0196	1	2	Switch, High Air Temperature
	110-1215-02	ž	4	.002" Oversize	39	203-0130	•	*	(Optional)
	110-1215-05	2	4	005" Oversize	40	309-0195	1	1	Bracket, High Air Temperature
	110-1215-10	2	Ä	010" Oversize	_ ™	000-0100	•	٠	Switch (Optional)
	110-1215-25	2	4	025" Oversize	41	508-0126	2	2	Washer, Insulator, Switch
5	VALVE, INTA	KE			ļ .				Mounting (Optional)
	110-1218	2	4	Gasoline Engines	42	508-0127	3	1	Insulator, Sleeving - Air
	110-1286	2	4	Gas & Gasoline Engines	ŀ				Temperature Switch (Optional)
6	110-1219	2	4	Valve, Exhaust, Stellite	43			4	Stud, Intake Manifold
7	110-1221	4	â	Spring, Valve	44			2	Ballie, Fuel Distribution
8	110-1220	4	8	Retainer, Valve Spring	45	402-0361		2	
9	110-0858	8	16						Used on Early Models
10	110~0859	4	8	Cap. Valve Stem	46	403-0890		ŧ	Brace, Lifting Bracket
11	509-0090	2	4	Seal, Oil - Intake Valve, Includes Retainer Rings		400 0000			(Not Used on Early Models)
12	ARM, ROCK	50		urciones deteniet duride	47	403-0826		1	Spacer, Lifting Bracket
٠,	115-0128	2	4	Exhaust]	****		_	(Not Used on Early Models)
	115-0129	2	4	Intake	48	402-0362		2	Bushing, Spacer (Not Used on Early Models)
14	115-0127	4	8	Ball, Rocker Arm	40	123-1169		9	· · · · · · · · · · · · · · · · · · ·
15	115-0150	4	8	Locknut, Rocker Arm	50			2	
16	115-0189	2	4	Stud Set, Rocker Arm	1 ~	, ,20-1110		•	Crankcase Ventilator)
				(2 Studs and Lock)	51	WASHER,	LOCK		The second secon
	115-0184	2	4	Lock, Stud	1 ,	850-0045	4	8	Rocker Cover Mounting
17	115-0145	4	8	Rod. Valve Push (Aluminum)	1.	850-0060	1	-	Lifting Bracket Mounting
18	TAPPET, VA		*	Common A de manuale de	52	SCHEW.H	EXCAP		
	115-0132 115-0195	4	8	Spec A through O	I	800-0030	4	8	
19		4	8 2	Begin Spec P	1	800-0091	1	_	Lifting Bracket Mounting
20	115-0137	4	8	Guide, Push Rod Shield, Push Rod		800-0094			Lifting Bracket Mounting
21	509-0084	8	16		53	526-0100		. 2	
22		8	16		l				Bracket Mounting
		~			7				



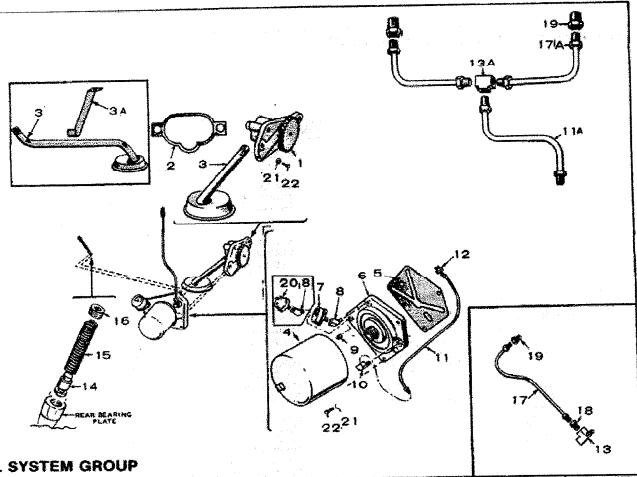
DEF	PART	O1	٧.	PART	REF	PART	ΩT	¥.	PART
NO.	NO.	8	C	DESCRIPTION	NO.	NO.	B	C	DESCRIPTION
1	153-0315	1	4	Adapter, Electric Choke	18	518-0129	1	1	Ring, Retaining
2	153-0324	1	1	Bracket, Electric Choke	19 20	332-0876 LEAD	1	1	Terminal, Ground
3	153-0321	- 1	1	Element, Electric Choke	983.57	336-1550	1	1	Ground
4	153-0325	7	1	Cover Assembly, Electric Choke	21	336-1551 338-0332	1	1	Choke to Ignition Coil Harness, Choke
5	153-0385	1	1	Plate, Choke Mounting	22		ATHEA	ນຸດ	HOKEPLATEMOUNTING
ě	153-0386	1	1	Body	- Engy	815-0161	2	້ ວັ	Late Models (10-32 x 3/8")
7	153-0389	1	1	Cover		815-0266	2	Ţ,	Early Models (8-32 0")
8	153-0391	1	1	Core, Solenoid	23	813-0107	ī	1	Screw, Round Head - Unoke
9	153-0395	1	1	Armature		0.000.00	•	•	Body Mounting (10-32 x 1-1/4")
10	307-0801	1	1	Coil Solenoid Assembly	24	812-0046	2	2	Screw, Round Head - Choke
11	153-0392	1	1	Frame, Solenoid		Q12 90 90	~		Cover Mounting (8-32 x 5/16")
12	SPRING				25	526-0008	1	*1	Washer, Flat - Choke Body
	153-0387	7	1	Spec A through R					Mounting
	153-0425	1	1	Begin Spec S	26	526-0022	1	1	Washer, Flat - Ground Terminal
13	153-0390	1	1	Lever, Thermostat	27	850-0030	1	1	Washer, Lock - Choke Body
14	526-0010	1	1	Washer (17/64" LO, x 5/6" O.D.					Mounting
				x 1/16")	28	854-0007	2	2	Washer, Shakeproof - Choke
15	870-0134	1	1	Palnut (1/4-20)					Cover Mounting
16	153-0399	2	2	Insulator	29	854-0017	1	ŧ	Washer, Shakeproof - Ground
17	HEATERA	SSEMBI	LYAN	ID BI METAL					Terminal
	153-0400	1	1	Spec A through R (NOTE: See next entry)	30	862-0015	1	1	Nut, Hex - Ground Terminal (5/16-18)
	153-0422		1	Begin Spec S (NOTE: Recom- mended for Engines with this type of Choke Beginning Spec A through R. Also order 153-0425 Spring for These Engines		153-0430	†	1	Choke Kit - Complete - For Engine Originally Equipped with this type Choke

NOTE: Electric Choke items 1 through 4 used on 2 cylinder engines Spec A through E and 4 cylinder engines Spec A through F. The Thermo-Magnetic Choke used on 2 Cylinder engines begins with Spec F and for 4 cylinder engines Spec G.

PISTON AND CONNECTING ROD GROUP



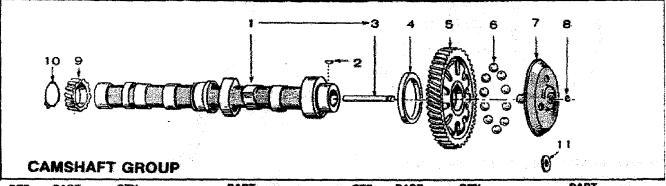
REF.	PART NO.	B	Y.	PART DESCRIPTION
1	RING SET			
				Gasoline & Gas-Gasoline
	113-0089	2		Standard
	113-0089-10	2		.010" Oversize
	113-0089-20	2		.020" Oversize
	113-0089-30	2		.030" Oversize
				Gas Only and LPG - Spec A
				through A
	113-0089	2		Standard
	113-0089-10	2		.010" Oversize
	113-0089-20	2		.020" Oversize
	113-0089-30	2		.030" Oversize
				Gas Only and LPG - Begin
				Spec S
	113-0107	2		Standard
	113-0107-10	2		.010" Oversize
	113-0107-20	Ž		.020" Oversize
	113-0107-30	2		.030" Oversize
	110 1191 00	~		All Models
	113-0107		4	Standard
	113-0107-10		4	.010" Oversize
	113-0107-20		4	.020" Oversize
	113-0107-20		4	.030" Oversize
	110-0191-00		7	Chrome Plated - Optional
	113-0111	•	4	Standard
	113-0111-10	2	4	.010" Oversize
	113-0111-20	9	Ā	020" Oversize
	113-0111-30	2	4	.030" Oversize
_		-	7	The state of the s
2				Retaining Rings)
	Gasoline - Gas	5-C:35	oline	-LPG-
1	Natural Gas	_		
	112-0092	2	4	Standard
	112-0092-10	2	4	.010" Oversize
	112-0092-20	2	4	.0207 Oversize
	112-0092-30	2	. 4	_030" Oversize
2A				Retaining Ring)
		miy-I		Compression - Optional
	112-0106	2	.4	Standard
	112-0106-10	2	4	.010" Oversize
	112-0106-20	2	4	.020" Oversize
	112-0106-30	2	4	.030" Oversize
3	PIN. PISTON			
4,5	112-0086	2	4	Standard
4	112-0085	4	8	Ring, Retaining, Pin
5	114-0163	2	4	Rod Assembly, Connecting
- 3	* *********	4	4	(Forged)
6	REARINGLA	UFO	ONIN	ECTING ROD
•	114-0164	4	8	Standard
	114-0164-02	4	8	.002" Undersize
		4	8	.010" Undersize
	114-0164-10	4	8	
	114-0164-20	4	8	.020" Undersize
~	114-0164-30	-	_	.030" Undersize
7	114-0170	4	8	- Bushing, Half - Piston Pin,
				Connecting Rod - Semi-
_	205 2040	1		finished
8	805-0012	4	8	Bolt (5/16-24 x 1-13/16")



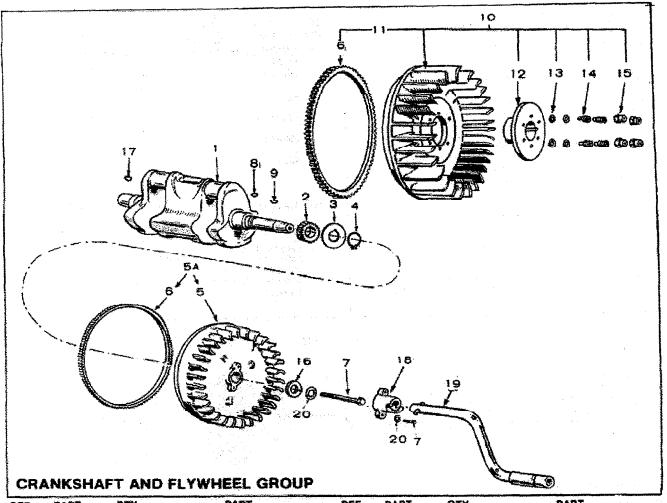
DI	L	S	48	T	EM	GR	OUP

REF	PART	or	7	PART	REF.	PART	OT	Ϋ.	PART
NO.	NO.	B	c	DESCRIPTION	NO.		B	Ç	DESCRIPTION
	120-0547	1	1	Pump Assembly, Oil		120-0637		1	Gasoline Engines - Spec P
ż	120-0580	1	1	Gasket Kit, Pump					through S
3	CUPASSEN	MBLY, OF	LIN			120-0562	1	1	Gas & Gas-Gasoline Engines -
	120-0551	1		All		,			Prior to Serial #698178
	120-0551		1	Spec A through D		120-0672	1		Gas & Gas-Gasoline Engines -
	120-0601		1	Begin Spec E					Begin Şerial #698178
ЗА	120-0602	9	1	Bracket, Intake Cup - Begin Spec E		120-0606		1	Gas & Gas-Gasoline Engines - Begin Serial #698178
4	122-0185	*	1	Filler (3-1/2" Long)	TIA	120-0707		1	Line, Adapter to Cylinder
4	122-0193	1	1	Filter (5-1/2" Long) -	4				Head Tee - Begin Spec T
			-	Optional	12	CONNECT	OR, INV	ERT	ED MALE - ADAPTER OIL LINE
5	122-0188	7	1	Gasket, Filter Adapter		502-0235	1		Gasoline Engines - Spec A
6	122-0182	-1	1	Adapter Assembly, Filter					through O (Restricted)
7	193-0006	7	1	Gauge, Oil Pressure	l	502-0030		1	Gasoline Engines - Spec A
8	502-0053	1	1	Elbow, Street 45°, (1) Oil					through O
				Gauge, Also (1) used to Mount Optional LOPKO		502-0274	1		Gasoline Engines - Begin Spec P (Restricted)
				Switch	l	502-0097		1	Gasotine Engines - Spec P
9	505-0057	1	1	Plug, Pipe 1/8", Adapter	l				through S
10		LLINET	O FI	LTER ADAPTER	i .	502-0235	1		Gas & Gas-Gasoline Engines -
	502-0019	7	1	Gasoline Engines - Spec A through O					Prior to Serial #698178 (Restricted)
	502-0037	*	1	Gasoline Engines - Begin Spec P		502-0030		1	Gas & Gas-Gasoline Engines - Prior to Serial #698178
	502-0019	1	1	Gas & Gas-Gasoline Engines - Prior to Serial #698178		502-0274	1		Gas & Gas-Gasoline Engines - Begin Serial #698178
	502-0037	7	1	Gas & Gas-Gasoline Engines -	Į				(Restricted)
				Begin Serial #698178	l	502-0097		1	Gas & Gas-Gasoline Engines -
11	LINE, FILT	er adap	TEF	TO CYLINDER HEAD	1				Begin Serial #698178
	120-0562	1	1	Gasoline Engines - Spec A through O					Spec A through S
	120=0672	1		Gasoline Engines - Begin Spec P					
				The state of the s	1				

REF	. PART	Q,	TY.	PART	REF.	PART	QT	¥	PART
NO.	NO.	8	C	DESCRIPTION	NQ.		В	C	DESCRIPTION
13	502-0242		1	Tcc, Restricted Front Cylinder Head - Spec A	19	CONNECTO HEAD	OR, INVE	HTE	D MALE- REAR CYLINDER
				through S		502-0097		1	Gasoline Engines - Spec A
13A	502-0373		1	Tee, Cylinder Head - Begin	1				through O
				Spec T		502-0274		1	Gasoline Engines - Spec P
	120-0539	1	3	Valve, By-Pass	1				through S (Restricted)
15	120-0555	1	1	Spring, By-Pass		502-0394		2	All - Begin Spec T
16	505-0274	1	1	Plug, Pipe 1/8", Counter-	1				(Restricted)
				sunk Oil By-Pass	1	502-0097		7	Gas & Gas-Gasoline Engines -
17	LINE, TEET	OREA	RCYL	INDER HEAD	1				Prior to Serial #698178
	120-0575		1	Gasoline Engines - Spec A through O		502-0274		1	Gas & Gas-Gasoline Engines - Begin Serial #698178
	120-0635		1	Gasoline Engines - Spec P through S				7	Spec A through S (Restricted)
	120-0575		1	Gas & Gas-Gasoline Engines - Prior to Serial #698178	20	309-0064	1	Ì	Switch, Low Oil Pressure (Optional)
	120-0635		1	Gas & Gas-Gasoline Engines - Begin Serial #698178		309-0169	· 1 /	1	Switch, Low Oil Pressure (Optional)
				Spec A through S	21	WASHER, LO	OCK		
17A	120-0695		2	Line, Cylinder Head - Begin		850-0045	2	2	Oil Pump Mounting
				Spec T	1	850-0045	3	3	Oil Filter Adapter Mounting
18	502-0097		3	Connector, Inverted Male -	22	SCREW, HE	XCAP		,
				Tee to Rear Cylinder Head	Ì	800-0030	2	2	Oil Pump Mounting
				Oil Line - Spec A thru S	1	800-0028	3	3	Oil Filter Adapter Mounting

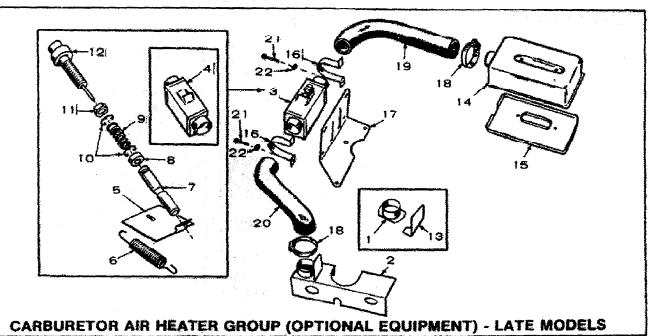


REF	F. PART	Q	TY.	PART	REF		O.	TY.	PART
NO	NO.	8	C	DESCRIPTION	NO	NO.	8	C	DESCRIPTION
1	CAMSHAFT.	INCLU	DES	CENTERPIN	. 6	BALL, FLY	- GOVER	INOF	·
	105-0219	1		Spec A through O	1	510-0046		12	
	105-0272	1		Begin Spec P	1	510-0046		10	• • • •
	105-0240	•	1	Spec A through O	1	510-0046	10	***	All
	105-0275			Begin Spec P	7	CUP. GOV	, , -		FRI
2	515-0001	2		Key, Camshaft Gear	} '	150-0775	4		All
2	515-0001		1	Key, Distributor Drive	ł	150-0833	•	. 4	Spec A Only
_			•	Gear - Battery Ignition	1	150-0857		4	Begin Spec B
3	150-0075	1	1	Pin. Camshaft Center		150-0078	4	*	Ring Snap - Center Pin
4	105-0205	1	1	Wesher, Camshaft Thrust	9	166-0302	•	- 1	Gear, Distributor Drive -
5	GEAR, CAM	SHAFT	-INC	LUDES FLYBALL SPACER	1 "	INA AMAIN		•	Battery Ignition
	AND PLATE				10	518-0195	•	4	Ring Snap, Drive
	205-0218		1	Begin Spec 8		510-0155		•	Gear - Battery Ignition
	105-0223		1	Spec A Oniv	11	150 0859		4	Washer, Thrust - Governor
	105-0218	1		All	1 "			•	Yoke - Begin Spec B
					1				TENER WEST TO



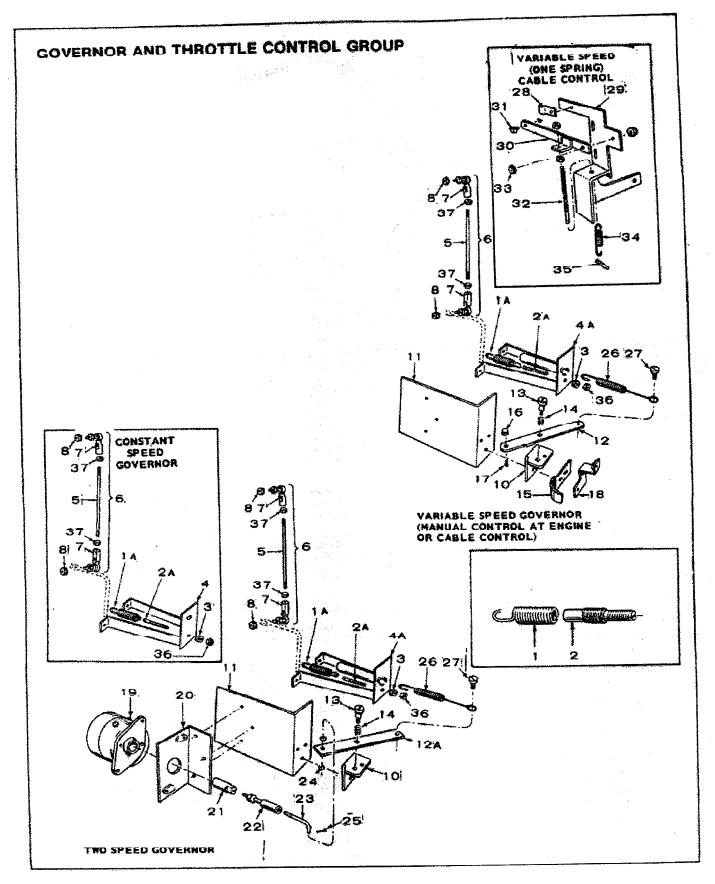
REF			ry.	PART
NO	Photography (Cont.)	8		DESCRIPTION
7	CRANKSHAF	7		
	104-0438	1		Standard Engines
	104-0439	1		Engine with Clutch
	•	1		Engine with Auto Cycle Starter
	104-0458		1	Standard Engine
	104-0460		1	Engine with Clutch
	*		1	Engine with Auto Gycle Starter
2	104-0418	1.	ì	Gear
3	104-0416	1	1	Washer, Retainer
4	518-0188	1	3	Ring, Lock
5	FLYWHEEL			
	160-0692	1		Magneto Ignition, Manual Start and Auto Cycle Start - Standard
	104-0473	1		Battery Ignition, Auto Cycle Start - Optional
5A	FLYWHEEL.	INCLU	DES	
	160-0877	1		Magneto Ignition - Optional
	104-0472	1		Battery Ignition - Standard
	191-0403	1		Battery Ignition (Machined for Charging Alternator Rotori - Optional
6	104-0423	1	1	Gear, Ring
7	HEX CAP		•	and control in a single of the
•	800-0500	1	1	Flywheel Mounting
	800-0050	2	ż	Crankdog Mounting
8	515-0001	7	7	Kev. Gear
š	515-0153	1	i	Key. Flywheel to Crankshaft

REF.	PART NO.	QT B	Υ ,	PART DESCRIPTION
10	FL YWHEEL	INCLU	ĐĒS I	HU8 ASSEMBLY
,,,	134-1446		1	Magneto Ignition, Manual
	,			Start and Auto Cycle
				Start - Optional
	134-1446		1	Sattery Ignition, Anto Cycle
				Start - Optional
11	FLYWHEEL.	INCLU	DES	RING GEAR AND HUB ASSEMBLY
	134-1406		1	Battery Ignition - Standard
	134-1556		1	Battery Ignition (Machined
				for Charging Alternator
				Rotor) - Optional
12	134-1401		1	Hub, Flywheel
13	526-0187		4.	Washer, Special, Hub to
				Flywheel
14	104-0543		4	Spacer and Washer Assembly,
				Hub to Flywheel
15	115-0150		4	Nut, Stover (3/8-24) - Hub to
				Flywheel
16	526-0185	1		Washer, Flywheel Mounting
17			1	Key, Crankshaft, Power
				Take-Off
18	104-0429	1	1	Crankdog, Manual Start
				Engines
19	192-0350	1		Crank, Hand - Manual Start
		.,		Engines
19	192-0268		1	Crank, Hand - Manual Start
. •			_	Engines
20	WASHER, L	OCK		
-4.**	850-0055	1	1	Flywheel Mounting
	850-0050	2	2	Crankdog Mounting

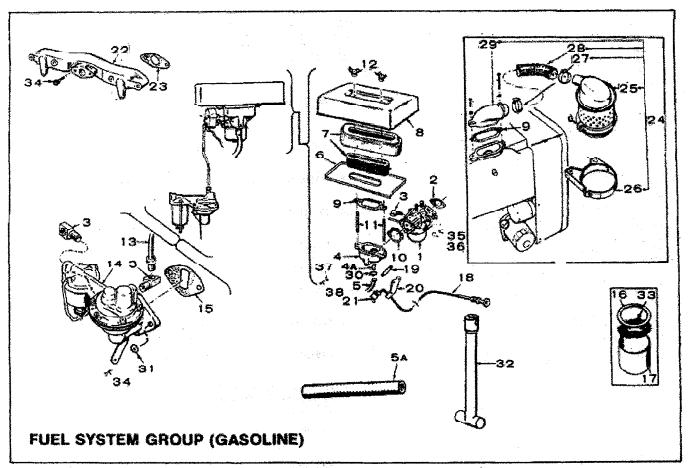


AEF	PART	Q	TY.	PART	REF.	PART	Q	Y.	PART
NO	NO.	3	C	DESCRIPTION	NO.	NO.	8	C	DESCRIPTION
	KIT. AIRHEA	TER			1 7	140-0784		1	*Plunger, Temperature Control
	140-0890	1		Engines with Duct or with	8	140-0808	1	1	*Spacer, Vernatherm
				Duct and Shutter	9	140-0787	1	1	Spring, Vernatherm
	140-0893		1	Engines with Duct or with	10	518-0205	i	1	'Ring Retaining
				Duct and Shutter	17	870-0195	1	1	Nut, Locking - Vernatherm
	140-0891	7		Engines without Duct or	12	309-0181	1	1	*Vernatherm, Temp. Control
				Shutter	13	140-0789	1	1	Shield, Air Outlet Hose -
	140-0894		1	Engines without Duct or Shutter					Engines with Duct or Duct and Shutter
Ŧ	133-0187	1	1	Adapter, Hose - Air Outlet -	14	140-0790	1	1	Cover, Air Cleaner
				Engines with Duct or Duct	15	140-0791	7	1	Pan, Air Cleaner
				and Shutter	16	140-0821	2	2	Clamp, Temperature Control
5	133-0191	1		Plenum, Manifold Heater -	1				Support
				Engines without Duct or	17	140-0822	1	1	Support, Temperature Control
_				Shutters	18	503-0311	- 2	2	Clamp, Hose
2	133-0192		1	Plenum, Manifold Heater -	19	503-0474	1		Hose, Control to Air Cleaner
				- Engines without Duct or	19	503-0475		7	Hose, Control to Air Cleaner
				Shutters	20	503-0476	1	1	Hose, Adapter (or Plenum)
3	140-0788	1	1	Control Assembly, Temperature -	1				to Control
				Includes Parts Marked *	21	813-0105		2	Screw, Round Head = 10-32 x 1
4	140-0785	7.	1	*Housing, Temperature Control	22	854-0010		2	Washer, Lock
5	140-0782	1	1	*Shutter, Temperature Control	1				
6	140-0786	Ŧ	1	*Spring, Shutter Control	1	iucinde	g in Co	nito	Assembly.

MANIFOLD GROUP						
		REF.		QT	γ.	PART
		HO.	NO.	#	Ç	DESCRIPTION
		1	154-0633	1.		Manifold, Exhaust
		1.	154-0714		1	Manifold, Exhaust
		2	154-0463	2	4 ^	Gasket, Exhaust Manifold to Head
	en e	3	155-0782		1	Flange, Exhaust Manifold Outlet
2 5		4	154-0738		1	Gasket, Exhaust Outlet
3/6		5	110-0445	4	4	Nut, Hex, Manifold Mounting
		6	526-0045	4	4	Washer, Flat - Manifold Mounting
		7	526-0127	2	2	Washer (3/8")
		8	850-0050	2	2	Washer (3/8"), Lock
(145)		9	862-0003	2	2	Nut (3/8-16)
The second secon		10	850-0054	2	2	Screw (3/8-16 x 2")



REF.	PART NO.	QTY B	C	PART DESCRIPTION	REF.		QTY.	
		*****			140.	, 110.		C DESCRIPTION
	SPRING GO 150-0821 150-0837	1	t 1 :	Spec A through Q Spec A Only	16	153-0014	1	Nut. Cable to Lever, Variable Speed (2 Spring) Governor (Manual Control with Cable)
	150-0861 SPRING, GO	VERNOR	1	Spec B through Q	17	810-0074	1	Optional Equipment Screw, Cable to Lever, Variable
	150-1084 150-1085 STUD. GOVI		1 DJI	Begin Spec R Begin Spec R JSTING			•	Speed (2 Spring) Governor (Manual Control with Cable) Optional Equipment
	150-0822 150-0851 150-0863	1	1	Spec A through Q Spec A Only Spec B through Q	18	150-0978	1	1 Bracket, Stop, Variable Speed Governor - Optional
2A	STUD, GOV 150-1082	ERNOR A		USTING Begin Spec R	19	307-0628	1	Equipment Solenoid, Governor Control, Two Speed Governor - Optional
3	150-1083 NUT, GOVE 104-0091	HNOR AD	1).j.u 1	Begin Spec R STING Spec A through O	20	150-0906	1	Equipment 1 Bracket, Solenoid Mounting, Two Speed Governor -
4				Begin Spec R BOVERNOR - CONSTANT	21	150-0905	1	Optional Equipment Plunger, Solenoid, Two Speed
	GOVERNOF		. .∈. €	SPEED (One Spring) Spec A through Q	22	150-0925	1	Governor - Optional Equipment Joint, Ball, Two Speed Governor - Optional Equipment
	150-1108 150-0815	1	1	Begin Spec R Spec A through Q	23	150-0923	1	Rod, Solenoid to Lever - Two Speed Governor - Optional
4A		TWO SP		Begin Spec R VARIABLE SPEED (Two D GOVERNOR - OPTIONAL	24	526-0116	2	Equipment Washer, Solenoid Rod - Two Speed Governor - Optional
	150-0912 150-1106	, 1		Spec A through Q Begin Spec B Spec A through Q	25	516-0036	1	Equipment Key, Cotter (1/16 x 3/8") Solenoid Rod, Two Speed
5	150-0913 150-1111 ROD, GOVE	RNOR C	i ON	Begin Spec R	26	SPRING, G		Governor - Optional Equipment R CONTROL, TWO SPEED - ENT
	150-0964 150-1075	1	1	Spec A through Q Begin Spec R		150-0919	1	Speed Range 1200 to 2400 rpm (1-1/4" Coil)
6	150-0641 150-1069 LINKAGE A	SSEMBL	1	Spec A through Q Begin Spec R GOVERNOR		150-0920	1	Speed Range (200 to 1800 rpm or 1800 to 2500 rpm (2-3/32" Coil)
	150-0965 150-1076	1.		Spec A through Q Begin Spec R		150-0922		1 Speed Range 1200 to 1800 rpm (1-15/16" Coil)
7	150-0849 150-1070 JOINT, BAL	.L	1	Spec A through Q Begin Spec R		150-0921		1 Speed Hange 1200 to 2400 rpm or 1800 to 2500 rpm (1-13/32" Coil)
	150-0974	2	1 2	Spec A through Q (Early 2 Cylinder Engines used 1 only) Begin Spec R	27	150-0918		Screw, Spring to Lever, Variable (2 Spring) Speed & Two Speed Governor - Optional Equipment
8	870-0131	2	2	Nut, Keps - Ball Joint to Governor Arm	28	150-0942	1	Clamp, Speed Control Cable - Variable Speed (1 Spring)
10	150-0916	1	*	Bracket, Control Arm - Variable Speed (2 Spring) & 2 Speed Governor - Optional Equipment	29	150-0940	1	Governor - Optional Equipment Bracket, Governor Spring & Variable Speed Arm - Variable
11	150-0917	1	1	Bracket, Governor Control Mounting - Variable Speed (2 Spring) and 2 Speed	200	160-0973	1	Speed (1 Spring) Governor - Optional Equipment 1 Arm and Bracket, Variable
12	150-0908	ŧ	1	Governor - Optional Equipment Lever, Speed Control - Variable (2 Spring) Governor - Optional				Speed (1 Spring) Governor - Optional Equipment
12A	150-0904	1	1	Equipment Lover, Solenoid Control -	31		1	1 Swivel, Variable Speed (1 Spring) Governor - Optional Equipment
13	150-0915	1	1	2 Speed Governor - Optional Equipment Screw, Speed Control Lever	32	150-0945	1	Stud, Speed Adjustment - Variable Speed (1 Spring) Governor - Optional Equipment
				and Spring Mounting Variable Speed (2 Spring) and 2 Speed Governor - Optional Equipment	33	152-0041	7.	1 Washer, Tension - Variable Speed (1 Spring) Governor - Optional Equipment
14	150-0907	1.7	1	Spring, Speed Control Lever, Tension, Variable Speed (2 Spring) and 2 Speed	34	151-0206	1	Spring, Governor - Variable Speed (1 Spring) Governor - Optional Equipment
15	150-0914	1	1	Governor - Optional Equipment Ratchet, Speed Control, Variable Speed (2 Spring)	35	150-0900	1	1 Arm. Governor Spring Control - Variable Speed (1 Speed) Governor - Optional Equipment
				Governor (Manual Control at Engine) - Optional Equipment	36	870-0133	1	1 Painut, Governor Adjustment Locking
					37	870-0188	2	2 Palnut, Governor Link Locking
				1	3			



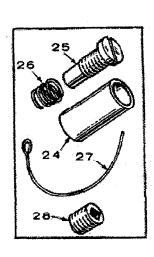
REF.	PART	QT	'Y _	PART	REF	. PART	œ.	TY.	PART
NO.	NO.	8	C	DESCRIPTION	NO.	NO.	B	C	DESCRIPTION
1 £	CARBURET	OR. GA	SOL	INE-MANUAL START	6	140-0595	1	1	Pan, Air Cleaner
	ENGINES				7	140-0636	1	1	Element and Retainer, Air
	141-0763	1		Spec A through O					Cleaner
	141-0693	1		Begin Spec R	8	140-0594	1	1	Cover. Air Cleaner
	141-0756		1	Spec A through O	9	140-0584	1	1	Gasket, Air Cleaner
	141-0686		1	Begin Spec R	10	GASKET, A	OAPTE	STO	CARBURETOR
1 £	CARBURET	OR, GA	SOL	INE-ELECTRIC START		140-0585	1	1	Spec A thru O
	ENGINES			· · ·		140-0921	*	*	Begin Spec R
	141-0762	1		Spec A through Q	11	520-0621	2	2	Stud, Air Cleaner
	141-0692	\$		Begin Spec R	-12	865-0020	2	2	
	141-0759		1	Spec A through Q	13	LINE, PUM		RBU	
	141-0685		1	Begin Spec R		149-0739	1		Spec A through Q
2	154-0733	1	. 1	Casket, Carburetor Flange		140-1005	1		Begin Spec R
3	ELBOW, IN					149-0744		7	Spec A through Q - Manual
	502-0002	2	2	Fuel Pump Inlet and Outlet					Start
	502-0065	7		Carburetor Inlet		149-1016		1	Spec A through Q - Electric
	502-0002		1	Carburetor Inlet - Manual					Start
				Start and Electric Start -		149-1094		1	Begin Spec R - Manual Start
				Spec A through F		149-1099	*	4	Begin Spec R - Electric Start
	502-0065		1	Electric Start - Begin Spec G	14	PUMP, FUI	EŁ		
4		AIR CLE	EANE	R (Includes Nylon Tube)		149-0805	1	1	Manual Start Engine
	140-0647	1	1	Spec A through Q		149-0803	1	- 1	Electric Start Engine
	140-0933	1	1	Begin Spec R	15	149-0792	1.1	1	Gasket, Fuel Pump Mounting
4A	123-0732	1	1	Tube, Nylon	16	149-0517	7	1	Gasket, Fuel Pump Bowl
5		ATHER	TOP	VIR CLEANER ADAPTER	17	149-0116	1		Bowl, Fuel Pump
	503-0384	. 4		Spec A through D	18	153-0328	1		Choke, Manual
	503-0395	7		Spec E through R	18	153-0332		4	Choke, Manual
	503-0543	. 1		Begin Spec S	19	153-0326	1		Arm, Manual Choke
	503-0389		*	Spec A through E	20	153-0327	1	1	Bracket, Manual Choke
	503-0416		*	Spec F through S	21	518-0176	1	1	Clip, Manual Choke Arm
	503-0471		1	Begin Spec T	22	MANIFOLI	D, INTAK	Œ	•
5A	503-655A	*		Insulator, Breather Hose -		154-0724		4	€pec ∧ Only
				Begin Spec S		154-0749		7	Begin Spec B

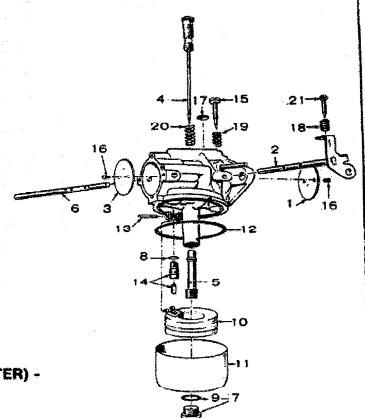
REF.	PART	Q1	Γ¥.	PART	REF.	
NO.	NO.	8	C	DESCRIPTION	NO.	
23	154-0733		2	Gasket, Intake Manifold	36	854
24	140-0677	1	1	Conversion Kit, Oil Bath		
				Air Cleaner - Includes	36	868
				parts marked *	37	850
25	140-0500	1	1	*Cleaner, Air - Oil Bath -	l	
	,			Optional Equipment	38	91:
26	140-0519	1	3	Band, Air Cleaner - Optional	l i	
				Equipment	39	81:
27	503-0365	2	2	*Clamp, Air Cleaner Hose -		
		_	-	Optional Equipment	l	
28	503-0395	1	1	"Hose, Air Cleaner to Adapter	40	850
				- Optional Equipment	ì	
29	140-0645	1	1	*Adapter, Oil Bath Air	41	87
				Cleaner - Optional Equipment	42	50
30	503-0171	- 2	. 2	Clamp. Breather Hose	43	50
31	149-1307	2	2		1	14
		-	-	Mounting		
32	141-0727	1	1	Rod, Carburetor Adjusting	1	
33	149-0463	1	1	Screen, Fuel Pump	1	
34	800-0027	'n	,	Screw, Hex Cap - Fuel Pump		- 10
	# · · · · · · · · · · · · · · · · · · ·	-		Mounting	1	C
				· ·		ä

REF.	PART	QT	TY.	PART
NO.	NO.	B	C	DESCRIPTION
36	854-0017	2	2	Washer, Shakeproof - Carburetor Mounting
36	868-0002	2	2	Nut, Carburetor Mounting
37	850-00 30	2	2	Washer, Lock - Air Cleaner Adapter Mounting
38	819-0108	2	2	Screw, Air Cleener Adapter Mounting
39	813-0098	2	2	Screw, Choke Mounting Mounting Bracket (10-32 x 3/8")
40	850-0030	2	2	Washer, Lock - Choke Mounting Bracket (#10)
41	870-0131	1	•	Nut, Kep (10-32)
42	502-0020	1	1	Elbow, Street Pipe
43	504-0007	1	1	Valve, Shut-off
	149-1048	1	1	Repair Kit, Fuel Pump (Includes Diaphragm Assembly, Valves and Gaskets)

⁻ Included in Optional 140-0677 Oil Bath Air Cleaner Conversion Kit.

 $[\]boldsymbol{\mathtt{E}}$ - See Separate Group for Components and Service Kits.



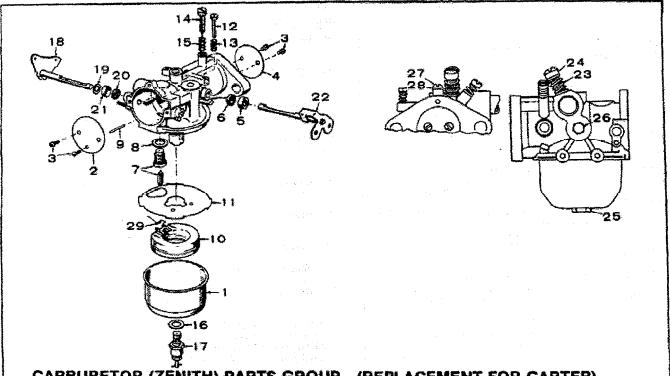


CARBURETOR PARTS GROUP (CARTER) - SPEC A THROUGH Q

NOTE: See separate group for Zenith Carburetor parts used beginning Spec R.

REF.	PART	QT	Υ,	PART	AEF.		Q1	TY.	PART
NO.	NO.	8	C	DESCRIPTION	NO.	NO.	B	C	DESCRIPTION
***************************************	CARRURE	TOR GA	 SOI	INE (Zenith Replaces Carter Carburator)	3	143-0220	1	1	Valve, Choke
	141-0763	سوچ پردانۍ ۱. ا		Manual Choke	4*	NEEDLE ID	LEJET	AND	HIGH SPEED ADJUSTING
	141-0762	*		Electric Choke	•	143-0205	1		For Gasoline Carburetor
	141-0756	*	1	Manual Choke					Spec A through D (**)
	141-0759		1	Electric Choke - Optional		143-0295	1		For Gasoline Carburetor -
		TOR GA	S-G	ASOLINE-OPTIONAL					Spec E through P (†**)
	141-0761	1		Manual Choke		143-0295	1		For Optional Gas-Gasoline
	141-0760	1		Electric Choke					Carburetor (†)
	141-0755		1	Manual Choke		143-0235		1	Needle, Idle Jet and High
	141-0758		1	Electric Choke					Speed Adjusting (Not used
	141-0764	1		Carburetor, Gas - Optional					on Gas Carburetor) (§**)
	141-0757		1	Carburetor, Gas - Optional	5'	NOZZLE			
		T, CARB	UHE.	TOR - (Includes Parts Marked "")		143-0206	*		For Gasoline Carburetor -
	143-0200	*		For Gasoline Carburetor -					Spec A through D
				Spec A through D		143-0296	1		For Gasoline Carburetor -
	143-0298	1		For Gasoline Carburetor -					Spec E through P (†)
		_		Spec E through P		143-0296	1		For Optional Gas-Gasoline
	143-0298	1		For Optional Gas-Gasoline					Carburetor (1)
	140 0044			Carburetor		143-0237		3	Nozzie (Not used on Gas Only
	143-0241		7	Repair Kit, Carburetor -			~~~		Carburetor) (§**)
				Includes Parts Marked **	6	SHAFT, CH	UKE		minimal mustin 1966
				(Not used for Gas Only					Electric Choke - (J60 - Spec A through E & J120 -
	* 40 0004			Carburetor)					
	143-0201	1	1	Gasket Kit, Carburetor		4 40 0007			Spec A through F) Gasoline Carburetor
				(includes Parts Marked *)	,	143-0207	3	3	Gas-Gasoline Carburetor.
	141-0281		_	(61")		143-0232	1	*	Thermo-Magnetic Choke
	141-0281	1	7	Gasket, Carburetor Flange					(J60 - Spec F through P and
				(Illustrated in Fuel System					J120 - Spec G through P)
	143-0202	*		Group) (*) Valve, Throttle	6	143-0221	1	1	Shaft and Lever, Choke -
2	SHAFT AN	im Level	i Di Trij		0	143-0221	•	•	Manual Choke
٤.	143-0203	VU LEVEI	ъ, на	Standard		143-0315	1		Gaspline Carburetor
	143-0234	•	4	Spec B through P		143-0316	4	1	Gas-Gasoline Carburetor
	143-0203		1.	Spec A Only	7	143-0208	i	ī	Screw and Gasker, Down
			-		,				

REF.	PART	OT	γ.	PART	REF.	PART	QTY.		PART
NO.	NO.	8	<u>c</u>	DESCRIPTION	NO.	NO.	8	C	DESCRIPTION
8	143-0015	1	1	Çaşket, Fuel Inlet Valve (*)	16	812-0014	4	Z.	Screw, Round Head (#3-48 x
9	143-0209	1	1	Gasket, Bowl Screw (*)	ł				3/16") Choke and Throttle
10	FLOAT AND	LEVER							Valve Attaching (§†**)
	143-0105	1		For Gasoline Carburetor -	17	143-0110	1	1	Plug, Welsh
				Spec A through D	18	143-0214	1	1	Spring, Throttle Lever
	143-0297	*		For Gasoline Carburetor -	İ				Adjustment Screw
				Spec E through P	19	143-0112	1	1	Spring, Idle Adjustment Screw
	143-0297	1		For Optional Gas-Gasoline	20	143-0114	1	1	Spring, High Speed Adjustment
				Carburetor					Needle
	143-0105		1	Float and Lever (Not Used on	21	143-0215	1	1	Screw. Throttle Lever Adjusting
				Gas Only Carburetor)	24	145-0308	1	1	Tube, Gas inlet - For Gas
11	143-0210	1	1	Bowl			•		and Gas-Gasoline Carburetor
12	143-0077	1	1	Gasket, Bowl Ring (*)					Only
13	143-0212	1	1	Pin, Float, Lever (Not Used	25	145-0309	1	1	Needle, Gas Adjustment - For
		,	•	on Gas Only Carburetor) (§1**)			•	•	Gas and Gas-Gasoline
14	143-0341	1	1	Valve, Fuel Inlet (Not Used	ł				Cerburetor Only
				on Gas Only Carburetor) (8†**)	26	148-0010	1	1	Spring, Gas Adjustment Needle
15	SCREW, ID	LE ADJU	JST						- For Gas and Gas-Gasoline
	143-0213	1		For Gasoline Carburetor					Carburetor Only
				(Spec A through D)	27	143-0231	1	1	Wire, Choke Lock - For Gas-
	143-0299	1		Spec E through P (Gasoline	1				Gasoline Carburetor Only
				Carburetor)	28	505-0008	1	1	Plug, Pipe (1/8") - For Gas
	143-0213	1		Located 45° from Vertical					Cerburetor Only
				(Gas-Gasoline Carburetors)	29	854-0003		4	Washer, Lock - Valve
	143-0299	1.		Located top of Carburetor					Plate (6†)
				(Gas-Gasoline Carburetors)					
	143-0213	7	1	For Gas Only Carburetor	٠.	Contained in	143-0281	G,	asket Kit.
	143-0213		1	Gas-Gasoline Carburetor	** -	Contained in	143-0201	Re	epair Kit.
				(NOTE: Quantity is 2	1 +-	Contained in	143-0298	Re	epair Kit.
				for Gse-Gesoline Carburetor)	5 -	Contained in	143-0200	Re	pair Kit.



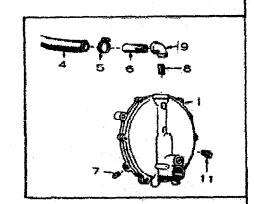
CARBURETOR (ZENITH) PARTS GROUP - (REPLACEMENT FOR CARTER) BEGIN SPEC R NOTE: See separate group for Carter Carburetor parts. Spec A through Q.

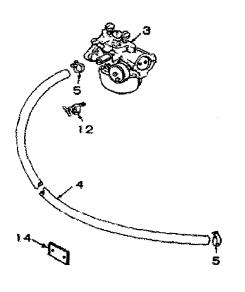
REF.	PART	Q	ry.	PART		PART	QT	¥.	PART
NO.	NO.	8	C	DESCRIPTION	NO.	NO.	8	C	DESCRIPTION
	CARBURET	OR.GA	SOL	NE	10	141-0702	1	1	
	141-0693	1		Manual Choke					Gas only Units)
	141-0686		1	Manual Choke	11	141-0701	1	1 1	'Gasket, Bowl to Body
	141-0692	1		Electric Choke	12	141-0700	1	1	Screw, Throttle Stop
	141-0685		1	Electric Choke	13	141-0711	1	1	Spring, Throttie Stop
		OR. G	S-G	ASOLINE (Optional)	14	NEEDLE.	IDLEADJ	JST	ING
	141-0717	1		Manual Choke		141-0713	1	1	Gasoline and Gas only Units
	141-0719		1	Manual Choke		141-0713	2	2	Gas and Gasoline Units
	141-0718	1		Electric Choke	15	SPRING.	IDLE NEED	DLE	
	141-0720		1			141-0710	1	1	Gasoline and Gas only Units
	141-0726	1	•	Carburetor, Gas Only		141-0710	2	2	Gas-Gasoline Units
				(Optional)	16	141-0077	4	1	Washer, Main Jet Assembly
	141-0725		1	Carburetor, Gas Only	17	141-0712	1	1	Jet Assembly, Main (Adjustable)
				(Optional)	**				Not used on Gas only Units
	141-0747	1	7	Repair Kit (Includes Parts	78	SHAFT, C	HOKE		•
				Marked *)		141-0742		1	Manual Choke Units
	141-0748	1	1	Gasket Kit (Includes Parts		141 0670	1	1	Electric Choke Gasoline Units
				Marked †)		141-0716	1	1	Electric Choke Gas-Gasoline
	141-0281	1	1 1	*Gasket, Carburetor Flange	ĺ				Units
1	141-0708	1	1	Bowl, Fuel	19	141-0699	1	1	
2	141-0741	1	1	Plate, Choke (Not used on	20	141-0697	1		† Seal, Felt - Manual Choke
-	,	,	•	Gas Only Units) - Manual		147-0037	,	٠	Units
				Choke	21	141-0203	1	1	†Retainer, Felt Seal - Manual
2	141-0861				[141-0200	•	٠	Choke Units
÷	14 (**000)	1	1	· restrict and restrict to the second section of the second second second second section secti	22	141-0709	1		Shaft and Lever, Throttle
				Only Units) - Electric Choke	22	141-0735		4	Shaft and Lever, Throttle
3	141-0698	4	4	Screw and Washer, Choke and	23	141-0733		1	"Spring, Main Gas Needle -
	1-41.0000	7	-4	Throtile Plate Mounting	**	141-5140		,	Gas and Gas-Gasoline Units
				(2 used on Gas only units)	24	141-0734	1	•	Needle, Main Gas Adjusting -
Æ	141-0792	1	1	Plate. Throttle	1 -	141-0134	,	•	Gas and Gas-Gasoline Units
4	141-0706	1	4	Plate, Throttle (Straight Gas)	25	141-0736	1	4	Nut. Bowl - Gas only Units
5	141-0705	1	1		25 26	141-0737		1	
6	141-0661	4		†*Seal. Rubber	1 20	141-0131		,	Units
7	141-0798	1			27	141-0738	1	1	
•	14170/50	E	,	†Valve Seat Assembly, Fuel (Not used on Gas only Units)	21	141-0138	•	1	Units
8	141-0696	1	1		28	141-0739		1	
a	E™ 1 ™WD3/U		f	(Not used on Gas only Units)	29	141-0799		1	
9	141-0700	1	1	TShaft, Float (Not used on	1 23	, - , - 0; 33		*	takundi suan
-	- · - · -	•	•	Gas only Units)		- Contain	ed in Repa	iir K	Gt.
					1 +		ed in Gasi		

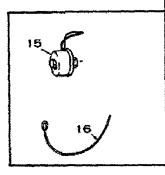
OPTIONAL FUEL SYSTEM GROUP (GAS AND COMBINATION GAS-GASOLINE)

REF.	PART	OT	٧.	PART
NO.	NO.	8	C	DESCRIPTION
7	148-0311	1	1	Regulator, Gas (Garretson
	CARBURE	TAB AA	0.00	Manufacturer)
ي	148-0961	105,04 1	O./12%	Manual Start Engines -
	14040801	*		Spec A through Q
	141-0717	1		Manual Start Engines -
	141 0.37	*		Begin Spec R
	141-0760	. 1		Electric Start Engines -
				Spec A through Q
	141-0718	1		Electric Start Engines -
				Begin Spec R
	141-0755		1	Manual Start Engines -
				Spec A through Q
	141-0719		1	Manual Start Engines -
				Begin Spec R
	141-0758		1	Electric Start Engines -
				Spec A through Q
	141-0720		1	Electric Start Engines -
				Begin Spec R
3	CARBURE		S	
	141-0764	1		Spec A through Q
	141-0726	1		Begin Spec R
	141-0757		1	Spec A through Q
	141-0725	_	7	Begin Spec R
4 5	503-0159	2	2	Hose, Regulator to Carburetor Clamp, Hose
6	148-0519	1	1	Connector, Hose
7	505-0057	7	1	Plug (1/8"), Regulator
, 8	505-0101	1	1	Nipple (3/8 x 1"),
	303-0101	,	*	Regulator Outlet
9	505-0039	1	1	Elbow, (3/8"), Regulator
•	200 0000	•	•	Outlet
	505-0120	1	1	Elbow, (3/8"), Regulator
	225.0.170	•	•	Outlet
11	148-0107	3	1	Vent. Regulator
12	504-0007	1	1	Valve, Shut-off (Fuel Pump
				Inlet)
14	149-0638	1	1	Plate, Fuel Pump Hole -
				Crankcase (Gas Fuel Engines)
15	307-0615		1	Primer Assembly, Solenoid
				(Used on some early models
				using Algas Regulator)
16	143-0231	7	1	Wire Choke Stop - Gas-
				Casoline, Electric Choke
				Engines

^{* -} See separate group for Components and Gasket Kit.



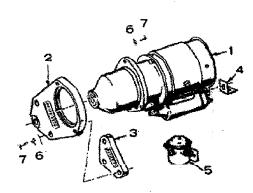




AUTOMOTIVE STARTER GROUP

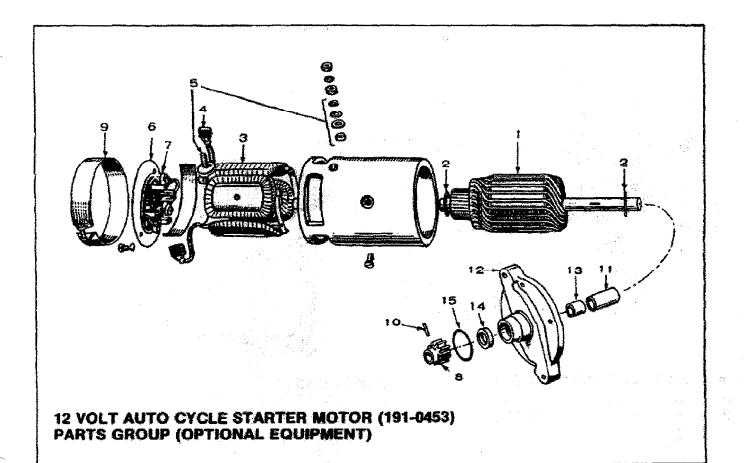
NOTE: This group applies to electric start engines.

NOTE: See separate group for Auto Cycle (Continuously engaged) Starter System.



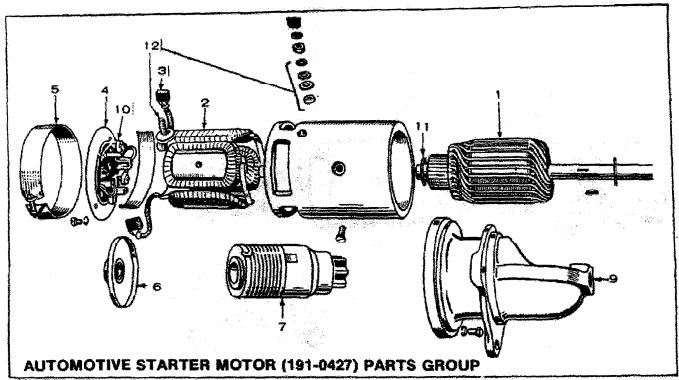
REF.	PART	OT	Ψ.	PART
NO.	NO.	B	Ç	DESCRIPTION
1	191-0427	1	1	*Motor, Start (12 Volt) Bendix
1	191-0324	1	1	Motor, Start (12 Volt) Solenoid Shift - Optional
2	191-0512	1	1.	Flange, Mounting
3	191-0311	1	3	Spacer, Flange
4	191-0320.	1	1	Bracket, Support, Rear
5	307-1046	1	1	Solenoid (12 Volt) - Optional
6	WASHER, LO	OCK		
	050-0050	2	2	Starter to Flange
	850-0050	3	.3	Flange Mounting
7	SCREW, HE	(HEAD)	
	800-0051	2	2	Starter to Flange
	800-0054	3	3	Flange Mounting
	191-0432	1	1	Glutch, Starter (For 191-0324)
	191-0433	7	1	Solenoid, Starter Switch (For 191-0324)
	191-0434	1	1	Brush Set, Starter (For 191-0324)
	191-0712	7	1	Armature (For 191-0324)
	191-0497	1	1:	Searing, Drive End (For 191-0324)

^{* -} See separate group for components.

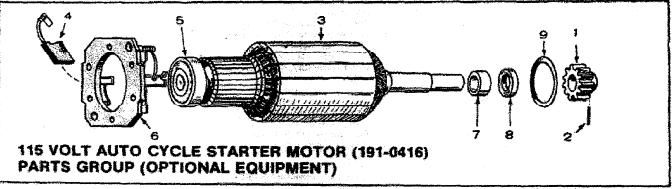


HEF.	PART	QT	Y.	PART
NO.	NO.	8	C	DESCRIPTION
	191-0453	1	1	Motor, Starter - 12 Volt - Includes Pinion Gear and Pin
7	191-0452	1	1	Armature
2	191-1021	1	1	Washer, Armature Thrust (Pkg)
3	191-1017	1	1	Coil Assembly, Package, Field
4	191-0513	7	1	Brush Set, Service
5	191-1022	1	1	Stud. Terminal (Pkg)
6	191-1018	1	1	Head Assembly, Commutator End
7	191-1020	2.1	1	Spring, Brush (Set of 4)
.8	191-0450	1	1	Gear, Pinion - Starter
ĝ		1	1	Band, Cover - Not Sold Separately
10	516-0154	1	1	Pin, Dowel - Pinion Gear
11	191-0451	1	1	Spacer, Armature to Adapter
12	191-0448		1	Adapter
13	191-0329	1	1	Bushing, Adapter
14	509-0092		1	Seal, Oil - Armature Shaft - Front
15	509-0093		1	Seal, "O" Ring - Starter Motor Mounting

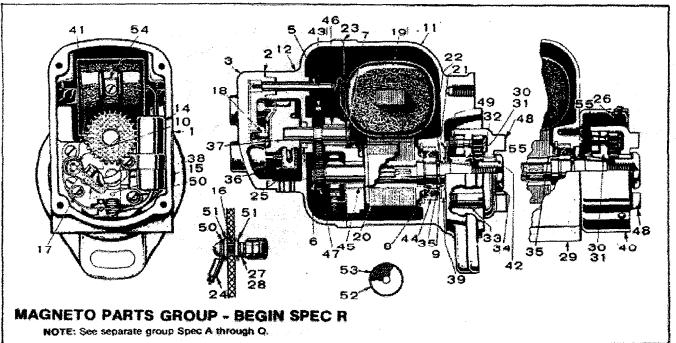
NOTE: See Separate group for 115 Volt Auto Cycle Starter Motor 191-0415 Parts.



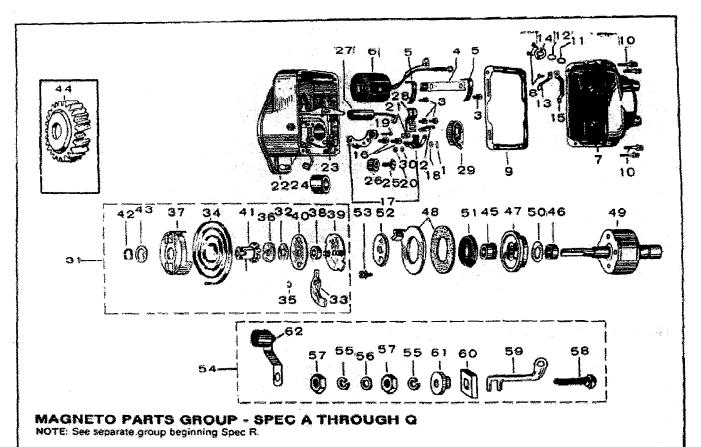
REF.	PART	Q1	TY.	PART		PART	01	Υ.	PART
NO.		8	C	DESCRIPTION	NO.	NO.	<u>B</u>	C	DESCRIPTION
	191-0427	1	1	Motor Assembly, Starting	6	191-1019	1	1	Bearing Assembly, Intermediate
1	191-0517	1	1	Armature	7	191-0271	1	1	Drive Assembly, Bendix
2	191-1017	1	1	Coil Assembly Package - Field	8	191-0735	1	1	Bearing, Drive End
3	191-0513	. 3	1	Brush Set. Service	9	191-1020	1	1	Spring, Brush (Set of 4)
4	191-1018	1	1	Head Assembly, Commutator Field	10	191-1021	1	1	Wesher, Armature Thrust (Package)
5		1	1	Band, Cover (Not Sold Separately)	11	191-1022	1	1	Stud, Terminal (Package)



REF.	ALL DE LA COLLEGE DE LA COLLEG		PART SE ALL SCORE C	REF.		QTY.		PART	
NO.	NO.	B	c	DESCRIPTION	NO.	NO.	8	C	DESCRIPTION
	191-0416	1	1	Motor, Starter - 115 Volt - Includes Pinion Gear and	5	191-0420	1	1	Bearing, Ball - Armature Shaft Rear
				Pin - Illustrated in Auto	6	191-0421	1.	1	Holder Assembly, Brush
				Cycle Starter Group	7	191-0329		1	Bushing, Armature Shaft
1	191-0336	1	1	Gear, Pinion - Starter					Front
2	516-0150	1	1	Pin, Starter Pinion Gear	8	509-0092	1	1	Seal, Oil - Armature Shaft
3	191-0418	1	1	Armature	•		7	•	Front
4	191-0419	2	2	Brush	9	509-0093	1	1	Seal, "O" Ring - Starter Motor Mounting
									ত চত কৰা সংক্ৰাৰ । ১৯৭০ কৰা নামী ই চী নি বিশ্বীৰ

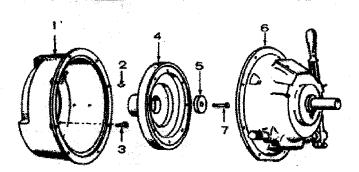


REF.	PART	Q	FY.	PART	REF.	PART	Qì	ſ¥.	PART
NO.	NO.	B	<u>c</u>	DESCRIPTION	· NO.	NO.	В	C	DESCRIPTION
	161-0252		1	Magneto Assembly - Includes	41	(F)X4631		1	Bearing Support
			-	Gear	42	(F)B5931B		1	Coupling Nut Washer
4	(F)A195			Namoplate	43	(F)Y6039		*	Distributor Shaft and Gear
2	(F)B682		1	End Cap Cover Gasket	1				Assembly
3	(F)C800		4	End Cap Cover	44	161-0071		1	Drive End Bearing
š	(F)J983A		. 4	High Tension Lead Rod	45	(F)A5950A		1	Cam End Bearing
6	(F)D1498		j	Rotor Gear Snap Ring	46	161-0073		*	Distributor Bearing
7	(F)G1498		1	Distributor Shaft Snap Ring	47	(F)Q5952		1	Rotor Gear
8	(F)B1498B		i	Orive End Bearing Snap Ring	48	(F)TZ5957		1	Coupling Shell - Flange
9	(F)B1498D		•	Rotor Shaft Snap Ring	1	f.) cimpons		•	Mounting
10	(F)G1498G		1	Fulcrum Pin Snap Ring	49	(F)T5963		1	Pawl Spring - Flange Mounting
			,	Housing - Flange Mounting	50	(F)85969		1	Contact Screw Plate Washer
11 12	(F)FX2425 (F)R2430C		1	End Cap	51	(F)C8018		ż	Switch Insulating Washer
			-		52			2	Vent Cover
14	161-0182		1	Condenser	* "				Vent Screen
15	161-0166		1	Breaker Point Set	53			2	
16	(F)K2457A		1	Ground Switch Screw Bushing	54	4. 1		1	Coll Clip
17	(F)D2458		1	Contact Screw Plate	55			1	Key
				Washer - #6	I	(F)859D		5	Screw, End Cap Cover
18	(F)E2460B		1	Center Brush and Spring	1				(#8-32 x 9/16")
19	161-0029		1	Coil	1	(F)10S14D		4	Screw, End Cap
20	(F)HW2480		1	Magnetic Rotor	1				(#10-24 × 7/8")
21	161-0128		. 1	Orive End Seal Outer Washer	Į.	161-0224		1	Screw, Condenser
22	(F)A2492C		1	Drive End Seal Inner Washer	1				(#8-32 x 1/4")
23	(F)H2498		1	End Cap to Housing Gasket	1	(F)6S6Z		1	Screw, Terminal Bucher
24	(F)J2499A		1	Primary Terminal Wire	1			_	(#6-32 x 3/8")
4.4				Assembly	ł	161-0225		1	Screw, Contact Support
25	(F)G2501		1	Distributor Shaft Seal	1	FIGORIA		_	(#6-32 x 3/8")
26	(F)D2502		1	Outer Shell Flat Washer - FM-X4A	ł	(F)8S6U		. 1	(#8-32 x 3/8")
27	(F)M2514		1	Ground Switch Lever	1	161-0126		1	Washer, Lock - Ground
28	(F)L2514C		1	Ground Switch Complete	1				Şwitch
29	(F)A2561A		7	Base Plate - Type FM-X4A	l	(F)8N1		3	Nut, Ground Switch Screw
30	(F)S2563		1	Coupling Hub Assembly	Į.	(F)25S12G		2	Screw, Base Plate
31	(F)BS2563C		1	Coupling Complete	ł				(1/4-20 x 3/4")
32	(F)E2565		1	Coupling Drive Spring	İ	(F)25S6G		4	Screw, Outer Shell Coupling
33	(F)S2568		1	Pawi Stop Pin	1				(1/4-20 x 3/8")
34	(F)M2570		1	Coupling Nut	1	614-0077		4	Screw, Bearing Support
35	(F)C2723		2	Drive End Bearing Shim	1				(#8-32 x 3/8")
36	(F)DX2765		7	Distributor Rotor	1	161-0223		2	Screw, Cover (#6-32 x 1/4")
37	(F)A2766		1	Distributor Rotor Spring Clip		(F)6S3W		1	Screw, Coil Clip (#6-32 x 3/16")
38	(F)G2788		1	Cam Wick and Holder					• • • • • • • • • • • • • • • • • • • •
39	161-0062		1	Drive End Seal	NO	TE: Parts wit	n Ona	n par	t numbers order from Onan.
40			1		Or	der parts with ur nearest Fai	-airbi	BUKS Nic-	(F) number from
				• • •	r Ao	ur nearest hai	rDanks	S PARTY	se neard.



<u> </u>						,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
REF.	PART NO.	B	ΓΥ. <u>C</u>	PART DESCRIPTION	REF.	PART NO.	TO B	Y. <u>C</u>	PART DESCRIPTION
	162-0242		3	Magneto, Complete	26	162-0250		1	Gear, Distributor (Wico #6865)
1	(Wico) 4210		7	Lock Breather Arm	27	162-0227		1	Condenser (Wico #X6916)
2	(Wico) 5077		4	Wiper, Cam - Felt	28	(Wico) 6924		1	Clamp, Condenser
3	(Wico) 5411		4	Screw - (2) Condenser Clamp,	29	162-0251		1	Hotor, Distributor (Wico #9564)
				(2) Coil Core Clamp	30	(Wico) 10407		1	Washer
4	162-0244		7	Core. Coil (Wico #X5524)	31	162-0249		1	Coupling Assembly, Impulse
5	(Wico) 5633		2	Clamp, Coil Core				_	(Wiso #X6516)
6	162-0246		1	Coil (Wico #X5700 B)	32	(Wico) M-42XA	\ **	1	Washer, Flange Spacing
7	162-0248		1	Cap Assembly, Distributor	33	(Wico) A-179X		2	Arm, Trip
				(Wico #X5777)	34	(Wico) 15-186		7	Spring, Drive
8	(Wico) 5536		3	Screw, (1) Coil Contact	35	(Wico) A-243X		2	Ring, Snap - Impulse Coupling
				(2) Window Clamp Plate	36	(Wico) IVA-051	33	1	Washer, Drive Cup Spacing
9	(Wico) 5618		1	Gasket, Distributor Cap	37	(Wice) 2061A		1	Cup. Drive
10	(Wico) 5522		4	Screw and Lock Washer.	38	(Wice) 2122		1	Spacer, Driven Flange
				Distributor Cap Mounting	39	(Wico) X2286		7	Flange Oriven
11	(Wico) 5719		1	Gasket, Window Seal	40	(Wico) 2288		1	Retainer, Drive Spring
12	(Wico) 5753		1	Window	41	(Wico) 6412		1	Nut, Lock - Impulse
13	(Wico) 5775		4	Spring, Coil Contact	42	162-0253		1	Ring, Lock - Impulse
14	(Wico) 5895		*	Plate, Window Clamp					(Wico #6424)
15	(Wico) X6001		1.	Core, Coll (Wico #X5524)	43	162-0254		1	Washer, Thrust (Wico #6425)
16	(Wico) 5900		2	Screw, Fixed Contact Clamp	44	160-0674		1	Gear, Drive
17	162-0204		1	Point Set, Breaker	45	(Wico) 5518		7	Spacer, impulse
				(Wico #X3996)	46	(Wico) 5520		1	Spacer, Bearing Cage
18	(Wico) 3219		7	Washer, Breaker Point Aligning	47	162-0243		1	Bearing and Cage Assembly, (Wico #X5521)
19	(Wico) 5431		1	Screw, Breaker Spring Clamp		(Wico) 5516		1	Ring, Retaining - Rotor
20	(Wico) 5717		1	Washer, Breaker Point Aligning		• • • •			Bearing (Included in 162-0243 Assembly)
21	(Wico) 7644		1	Felt, Breaker Arm		(Wico) 5517		1	Bearing, Rotor (Included in
22	(Wico) X6196	i	1	Housing Assembly					162-0243 Assembly)
23	(Wico) 5603		1	Pivot, Breaker Arm		(Wice) 5567		1	Cage, Rotor Bearing (Included
24	(Wico) 5610		1	Bushing, Breaker Plate					in 162-0243 Assembly)
25	(WICO) 6466		1	Screw and Washer, Distributor Gear	48	162-0245		1	Plate and Gasket, Impulse Stop (Wico #X5540)

REF.	PART	Q1	IY.	PART	REF	REF. PART		QTY.		PART
NO.	NO.	8	C	DESCRIPTION	NO		NO.	B	C	DESCRIPTION
49	162-0247		1	Rotor (Wico #Y5710)	58	-fWi	co) 3945			Stud, Ground
50	(Wico) 5926		1	Shield, Ball Bearing	59		co) 5635		1	Connector, Ground
51	(Wico) 6199		1	Seal, Oil	60	(Wi	ço) 9820		1	Lock, Insulating - Ground
52	(Wico) 6204		1	Slinger, Oil	ļ	,				Stud
53	(Wico) 6465		4	Screw and Lockwasher	61	(Wi	co) 11874		1	Insulator, Ground Stud
	•			Impulse Stop Clamp	62	(Wi	co) XS632		1	Button, Stop
54	(Wico) X5654		1	Connection Assembly, Ground	1	•	•			
55	(Wico) M-55XA	1	2	Washer, Lock - Ground Stud	NOT	E: Pa	rts having	Wico	กษท	ber, order from your nearest
56	(Wico) 1XA-256	6	1	Washer, Ground Stud	Wice	Dea	ler, giving	Part !	lumb	er and Complete Description.
57	(Wico) 3230		2	Nut, Ground Stud	Parts	havi	ng Ōnan	numbe	r, Of	der from Onan.

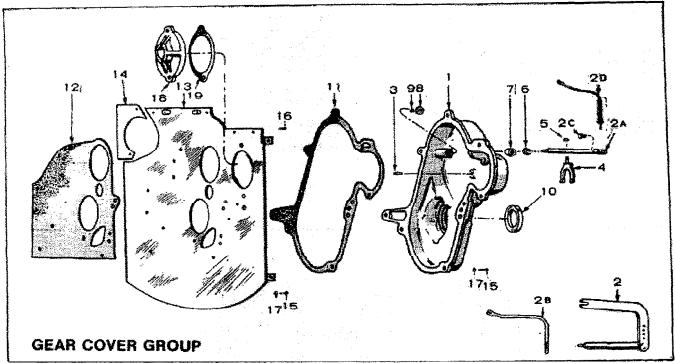


ROCKFORD CLUTCH GROUP (OPTIONAL EQUIPMENT)

	REF.	PART	Q1	TY.	PART
	NO.	NO.	***	C	DESCRIPTION
	1	190-0251	1	1	Housing, Clutch
	2	516-0006	1	1	Key, Clutch
ı,	3	805-0019	4	4	Bolt Place (3/8-16 x 1-1/4")
	4	190-0252	1	1	Flange, to Adapt Reckford Clutch
	4	190-0253	1	1	Flange, to Adapt Twin Disc Clutch
	- 5	190-0254	1	1	Washer, Flat
	6	190-0256		1	*Clutch Assembly (Rockford)
	7	800-0074	1	1	Screw, Hex Cap
	8	190-0325	1	i *	Clutch Assembly (Twin Disc)

For Components contact your nearest Rockford Clutch Dealer. Borg Warner Corporation - Rockford, Ithnois, 61106.

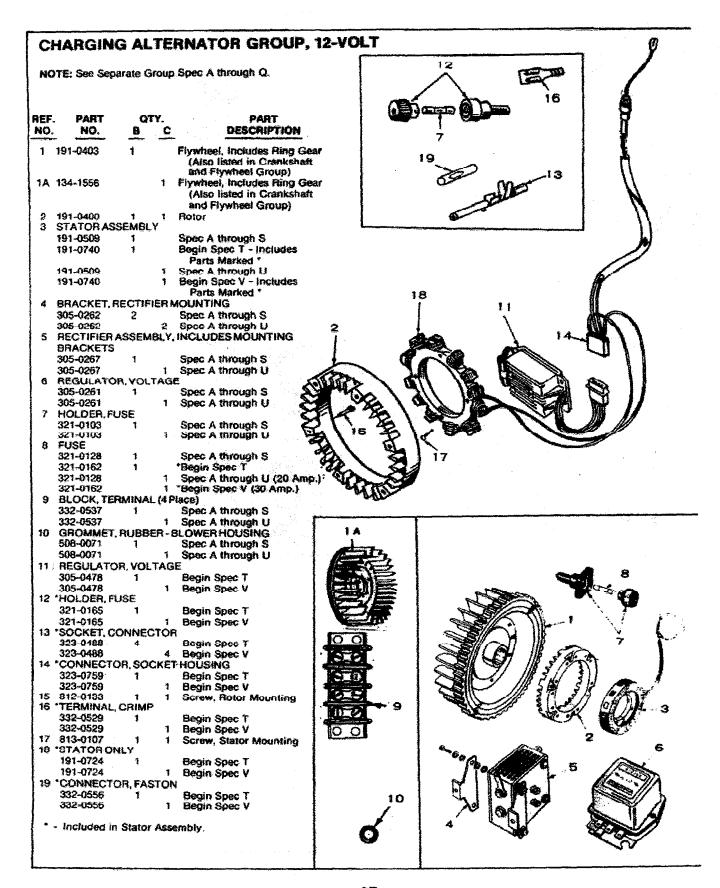
^{** -} For Components contact your nearest Twin Disc Clutch Dealer, Racine, Wisconsin 53403.

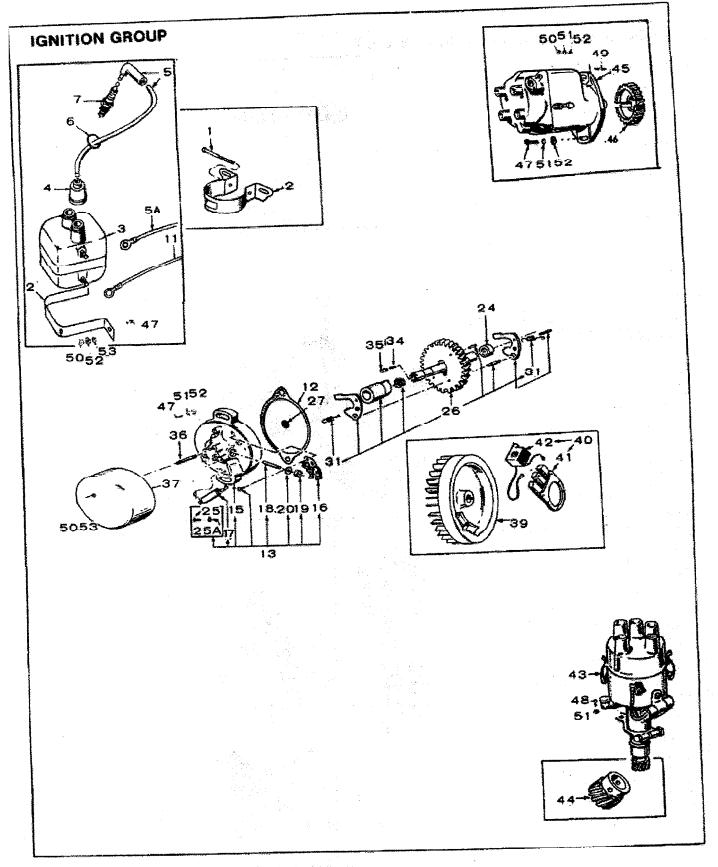


REF.	PART	O,	TY.	PART			
NO.	NO.	8	C	DESCRIPTION			
1	COVERASS	SEMBL	.GE	AR, COMPLETE - INCLUDES			
	PARTSMAL	TKEU"		こうしょう かんりょう かんしょう 女			
	103-0277	ţ		Standard - Spec A through S (For Engines Spec A through			
				C Also Order 103-0251 Gasket and 150-0840 Arm)			
	103-0366	1		Standard - Begin Spec T			
	103-0252	1	7	For Engines with Auto Cycle Starter Motor - Optional			
	103-0278	1	1	For Engine with One Spring Variable Speed Governor - Optional			
	103-0277		7	Standard - Spec A through S (For Engines Spec A thru C Also Order 103-0251 Gasket)			
	103-0366		1	Standard - Begin Spec T			
2	150-0785	1		Arm & Shaft, Spec A thru C			
				For Replacement Order 150-0838 Shaft, 150-0840 Arm and 815-0176 Screw			
24	150-0838	1		"Shalt, Governor - Begin Spec D			
2A	150-0838		1	*Shaft, Governor			
2A	150-0901	1	1				
				Cover only) - Optional			
28	150-0840	1		Arm, Governor Shaft to			
40. 40.	100 00:10	•		Carburator - Spec D thru P			
28	150-0836		1	Arm. Governor Shaft to Carburetor - Spec A thru Q			
2C	815-0176	1		"Screw, Hex (8-32 x 1/2") - Begin Spec D			
20	815-0176		1	*Screw, Hex (8-32 x 1/2")			
2D	ARMASSE	MBLY		RNOR BEGINSPECA			
	150-1093	1	,	Standard			
	150-1102	i		Variable and Two Speed Governor			
	150-1091		1	Standard			
	150-1100		i	Variable and Two Speed			
_			•	Governor			
3	516-0111	7	1	*Pin, Roll. Governor Cup Stop			
4	150-0777	1	4	'Yoke, Governor			
5	518-0129	1	1				
6	509-0088	1	٦	"Seal, Oil			
7	510-0048	1	1	*Bearing, 1/2" Governor Shaft			

REF. NO.	PART NO.	B	/. c	PART DESCRIPTION
8	510-0082	7	1	*Bearing, For 1/4"
	100			Governor Shaft
9	BEARING, E	ALL, GC	YE	NOR SHAFT THRUST
9	510-0014	1	1	3/16" Spec A through C and
				Also used on Optional
				103-0252 Gear Cover
- 5	510-0043	*	3	5/16", Begin Spec D
10	509-0087	1	1	"Seat, Oil
11	GASKET, G	EARCO	VER	
	103-0219	1	1	For Cast Iron Cover, Spec A through C
	103-0251	1	1	For Die Cast Cover, Begin Spec D
	103-0231	1	1	For Optional 103-0252 Gear
				Cover Assembly
12	103-0218	1	1	Gasket, Backplate
13	BACKPLAT			
	103-0226	1	1	Manual Start Engines
	103-0271	1	1	For Automotive Type Starter
	THE WALL	·	r	(To replace backplate on early models also order 134-1532 Baffle)
	103-0225	1	1	For Engines with Auto Cycle
		_		Starting System
	134-1532	1	1	Baffle, Gear Cover Backplate
15	SCREW, HE			00
	800-0028	1	1	Gear Cover Mounting
	110 0070			(5/16-18 x 1)
	110-0879	4	4	Gear Cover Mounting
	000 0000	_	_	(5/16-18 x 1-1/4)
	800-0026	1	1	Gear Cover Backplate Mountin
16	815-0347	2	2	Screw, Gear Cover Backplate Mounting
17	WASHER, L	OCK .		
	526-0115	5	5	Gear Cover Mounting
	850-0045	1	1	Gear Cover Backplate Mounti
18	103-0221		1	Cover, Gear Cover Backplate Opening
19	160-0721	1	1	Gasket, Backplate Opening Cover

⁻ Parts Included in Gear Cover Assembly.

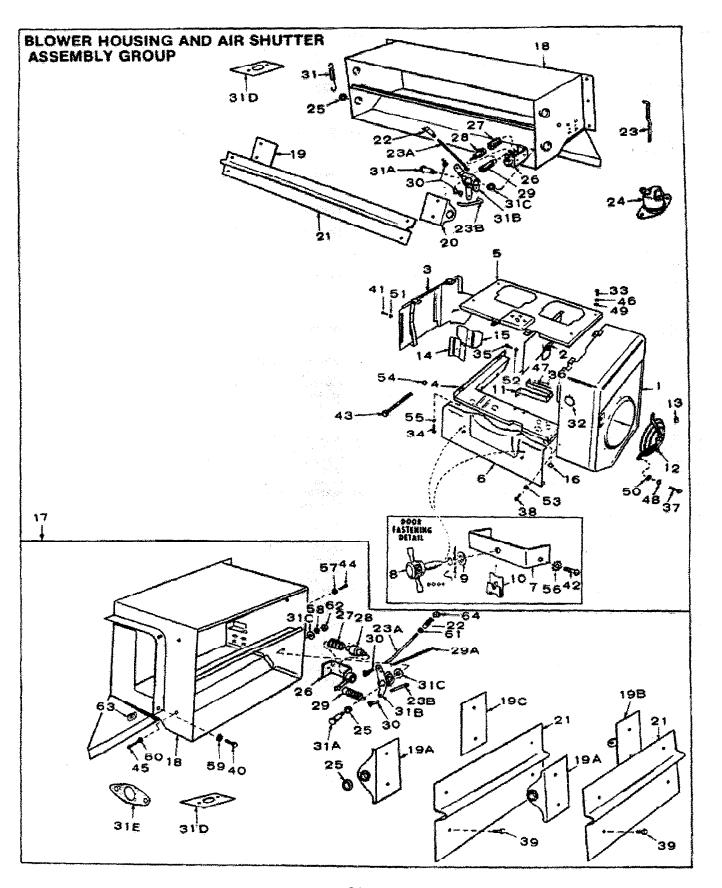




REF.	PART	QTY.		PART
NO.	NO.		C	DESCRIPTION
7	166-0286	3		Saran Cail Clares (Botton)
- 1	100-0200	2		Screw, Coil Clamp (Battery Ignition) - Spec A thru S
2	CLAMP, IC	BNITIONC	OIL	-BATTERY IGNITION
	166-0682	1		Spec A through S
	166-0556	1		Begin Spec T
	166-0279		1	All Models
3	COIL, IGN	IITION - BA	TT	ERY IGNITION
	160-0792	1		Spec A through S
	166-0346	1		Begin Spec T
	166-0278		1	All Models
4	160-0558	2	6	Nipple, Rubber - Coil (Battery Ignition)
5	CABLES	PARKPLU	3	faired and a Sun or walls
•	167-1384	2	_	26" Long (Magneto Ignition)
	167-1387	ž		14-1/2" Long (Battery Ignition)
	167-1379	2		17" Long - Use with
				Optional Wico Magneto
	167-1396		2	22-1/2" Long (Magneto Ignition)
	167-1379		1	17" Long - (Magneto Ignition)
	167-1381		ŧ	28-1/2" Long - (Magneto Ignition)
	167-1395		3	15-1/2" Long - (Battery Ignition)
	167-1399		1	25-1/2" Long - (Battery Ignition)
5A	167-1398		1	Cable, Coil to Distributor
			•	(Battery Ignition)
6	509-0018		1	Ring, "O" - Spark Plug Cables
7	167-0241	2	4	Plug, Spark
11	336-0179	1		Lead, Coil to Breaker Box
				(Battery Ignition)
11	336-0333		1	Lead, Coil to Distributor
				(Battery Ignition)
12	160-0721	7	1	Gasket, Breaker Plate Mounting
13	160-0762	1		Plate Assembly, Ignition
				Breaker
15	160-0891	1		Plate Only, Breaker
16	160-0002	1		Point Set. Breaker
17	312-0116	1		Condenser, Ignition
18	160-0716	1		Plunger, Ignition Breaker
19		1		Cup, Plunger Diaphragm
20		1		Diaphragm, Ignition Plunger
24	160-0720	1		Spacer, Ignition Timing
25	E47 6676	_		Control
25	517-0072	1		Screw, U-Drive - Breaker
25.4	#40 AAAA	_		Plunger Hole
25P	509-0065 160-0707	1		Seal, "O" Ring
3.63	15040707	1		Control Assembly, Ignition Timing
27	160-0806	. 1		
۲,	100-0000	,		Disc, Thrust - Plunger Bearing
31	160-0711	2		
34				Spring, Timing Weight Spring, Thrust Plunger
35				Plunger, Thrust
36		1		
40	450-0341			Stud, Ignition Plate Cover Mounting
37	160-0769	1		Cover, Ignition Plate -
~**	- 100 101 100	•		Includes Stop Button
				(Magneto Ignition)
				Assessment Secretarily

REF. NO.	PART NO.	QTY.	Ċ	PART DESCRIPTION
37	160-0719	1		Cover, Ignition Plate
				(Battery Ignition)
39	160-0692	1		Flywheel, With Magnets
				(Also Illustrated in Crank-
				shalt and Flywheel Group)
_				(Magneto, Ignition)
40	160-0696	1		Backplate Assembly, Magneto -
				Includes Backplate, Pole
				Shoe, and Coil (Magneto
	400 0007	4		Ignition)
41	160-0697	1		Backplate and Pole Shoe Assembly, Magneto (Magneto
				Ignition)
42	160-0693	1		Coil, Magneto (Magneto
	,44 4500	•		Ignition)
43	166-0307		1	*Distributor Assembly, Includes
				Drive Gear (Battery ignition)
44	166-0303		1	Gear, Distributor Drive
				(Battery ignition)
45	161-0252		1	'Magneto Assembly - includes
				Drive Gear (Magneto Ignition)
45	162-0255	1		£Magneto Assembly - Includes
				Drive Gear - Optional
	400 nn74			(Wico XH-2D Spec XH-2677)
46	160-0674	1	1	Gear, Magneto Drive (Optional for 2-Cylinder Engine)
				(Magneto Ignition)
47	SCREW, HI	CACAD		(magneto ignition)
4,	800-0052	2		Breaker Plate Mounting
	800-0051	•	1	Magneto Mounting
	800-0003	1	•	Coil Mounting
	800-0002	•	2	Coil Mounting
48	812-0148		1	Screw, Round Head - Distributor
,				Mounting (Battery Ignition)
49	520-0119		1	Stud, Magneto Mounting
50				
	862-0003	_	1	Magneto Mounting
	860-0013	1	5	
	865-0011	1		Breaker Plate Cover Mounting
51	WASHER, 850-0040	LUCK	1	Distributor Mounting (Sattery
	020-00-0		*	Ignition)
	850-0050		2	- · · · · · · · · · · · · · · · · · · ·
	850-0050	2	-	Breaker Plate Mounting
52		_		and the state of t
	526-0030		2	Magneto Mounting
	526-0026	2		Breaker Plate Mounting
	526-0015	1	2	
53		SHAKEP	RO	
	853-0013	1.		Coil Mounting
	854-0014		2	
	853-0008	7		Breaker Plate Cover Mounting

See Separate Group for Components.
 C. Order Components from your nearest Wice Dealer, giving description of part and Magneto number from Magneto nameplate.



REF.		QTY.	C	PART DESCRIPTION
1	HOUSENS DU	CAMED		
1	HOUSING RU			LINCON CO. CO. CONTROL VI.
	134-1050	1		JB Engine Only
	134-1087		1	JC Engine Only
2	134-1048		7	Housing, Cylinder Air (Front)
3	HOUSING, CY	LINDER	AF	IR (Rear)
	134-1051	4	1	Standard Engine
	134-1508	1	1	Engine with Factory Mounted
				Controls
4	PAN CYLINDA	RAIR	40	USING (Bottom)
•	134-1419	1	•••	JB Engine Only
_	134-1418		1	JC Engine Only
5	COVER, CYLIN	VDER A	!H :	
	134-1121	1		Spec A Through Q
	134-1787	7		Begin Spec R
	134-1119		1	Spec A Only
	134-1201		ŧ	Spec B Through P
	134-1794		1	Begin Spec R
6	PANEL, AIR H	OUSING	3 0	
	134-1039	1	-	Spec A Through U
	134-1096		1	Spec A Only
	134-1202		į	
25	• • • •	3110116		Begin Spec B
7	BRACKET, All) P) Y	
	135-1554	1		JB Engine Only
	134-1089		1	JC Engine Only
8	134-1373	1	2	Screw, Door Panel
9	134-1180	2	4	Washer, Screw - Retainer
				(Early Models used 8 for
				Top Covers)
10	870-0194	5	6	Nut, Tinnerman, Door Panel
,0	D10-013-4	3	•	Cover Cover Cover Cover
11	CHOOMET OF	AWED	L.	OUSING AND GRILLE
.,			77	
	134-1085	7		JB Engine Only
	134-1088		1	JC Engine Only
12	134-1091	Ŧ	\$	Grille
13	104 1002	3	3	Retainer, Grille
14	134-1097		1	Baffle, Center Cylinder
				(Carburetor Side)
15	134-1098		1	Baffle, Center Cylinder
				(Opposite Carburetor Side)
16	508-0002	2	2	Grommet, Rubber - (Blower
-	•	_	_	Housing 9/16")
17	SHITTEDAS	SEMBL	¥	AIR DISCHARGE (Optional)
1.2	INCLUDES PA			
	134-1811	1	₩	
		•		JB Engine Only
	134-1810]: ~:	JC Engine Only
18				ET (NOTE: Cannot be used on
	Early Model S	hutter A	\$3	embly with External Shutter
	Pivot Springs)		
	134-1804	1		JB Engines Only (*)
	134-1805		1	JC Engines Only (*)
19	RRACKETAN	in pivo		ASSEMBLY, SHUTTER
	134-1242	3	3	JB and JC Engines
	104-1242	ی	ب	
	401 4040		_	(£ +)
	134-1242		2	JC Engines Only (#)
	134-1612	_	\$	JC Engines Only (#)
19A		2	2	JB and JC Engines (*)
198	134-1802	1	1	JB and JC Engines (*)
19C	134-1801	1	3	JB and JC Engines (*)
20	134-1238	1	1	JB and JC Engines (£+)
20	134-1611		1	JC Engines Only (*)
21	SHUTTER. A	ROUTI	E	
	134-1252	2		JB Engines Only (£)
	134-1807	2		JB Engines Only (*)
	134-1237	-	2	JC Engines Only (+)
	134-1614		2	
99		4		JC Engines Only (*#)
22		1	1	
23		1	1	
23/	134-1606	1	7	
				(Upper) (#*)
236	134-1607	1	1	
				(Lower).(#*)
24	309-0162	1	1	Switch, Hi Temperature

REF.	PART	QTY.	C	PART DESCRIPTION
NO.	NO.		<u> </u>	
25	BEARING.			
	134-1248		4	JB and JC Engines (£+)
	134-1248		ē	JC Engines Only (#)
	134-1783		4	JB and JC Engines (")
~~	134-1248		2	JB and JC Engines (*) PERNATHERM
26	134-1244		1	JB and JC Engines (£+)
	134-1610	1	i	JB and JC Engines (#*)
27	134-0656	• •	i	Spring, Vernatherm Element
~-		·	•	(*£+#)
28	309-0085	. 1	1	Element, Vernatherm ("£+#)
29	134-0658	7	1	Spring, Shutter Return -
				Lower ("£+#)
29A	134-1817	1	1	Spring, Shutter Return -
				Upper (*)
30	GLIP,ROD		*	Dinhé Mand /*East
	518-0004 518-0006	7	1 2	Right Hand ("£+#) Left Hand ("#)
31	134-1437	2 2	2	Spring, Shutter Pivot
3.	134-1431	4	•	(External) (°C+#)
SIA	134-1605	1	7	Shaft, Actuating Arm ("#)
31B		1	1	Arm, Actuating (*#)
31C	526-0045		1	Washer, Actuating Shaft (#)
31C	526-0213	1	1	Washer, Actuating Shaft (*#)
31D	134-1375	1	1	Plate, Exhaust Outlet
				Cover ("#)
	154-0738	1	1	Gasket, Exhaust Outlet (*#)
32	517-0035	1	1	Plug, Dot Button - Governor
	SCREW.H	EV LIEAD/	- A E	Access
33	800-0004	EX HEMU (4	-Mr	Cylinder Air Housing Cover
-	440.004	-	,	Mounting (1/4-20 x 5/8")
34	815-0235	2	2	Bottom Cylinder Air Housing
•				Mounting (1/4-20 x 5/8")
35	815-0235	1	1	Front, Cylinder Air Housing
				Mounting (1/4-20 x 5/8")
36	800-0024	2	2	Blower Housing Support
4.4	000 0007		^	Mounting (5/16-18 x 1/2")
37	800-0007 815-0235	3	3	Grille Mounting (1/4-20 x 1")
38	6 10-U235	6	9	Blower Housing Mounting (1/4-29 x 5/8")
39	815-0361	8	8	Shutter Mounting (Optional)
-	0.000,	-	_	(10-32 x 5/16") (")
40	815-0235	3	3	Shutter Assembly Mounting
				(Optional) (1/4-20 x 5/8")
	SCREW, F	OUND HE	AD	
41	813-0097	2	2	Rear Air Housing Mounting
				(10-32 x 5/16")
42	813-0098	2	2	Air Housing Door Bracket
		-	_	Mounting (10-32 x 3/6")
43	812-0165	1	1	Center Baffle Mounting
4.8	813-0097	2	2	(1/4-20 x 4-1/2") Vernatherm Bracket and Guide
44	013-0037	2	-	Mounting (10-32 x 5/16")
				(Optional)(*)
45	812-0148	4	4	Bracket and Pivot Mounting
				(1/4-20 x 1/2") (Optional) (")
	WASHER	LOCK		
46	850-0040	4	4	Cylinder Air Housing Cover
		_	_	Mounting (1/4")
47	850-0045	2	2	Blower Housing Support
48	850-0040	3	3	Mounting (5/16") Grille Mounting (1/4")
740	WASHER		Ç	dince mounting (114)
49		4	4	Cylinder Air Housing Cover (1/4'
50		3	3	
		SHAKEP		
51		2	2	
				(#10 internal)
52	853-0013	1	1	Front Air Housing Mounting
			_	(1/4" External)
53	854-0014	6	6	
54	051 754		*	(1/4" Internal) Center Saffie Mounting
24	854-0014	1	*	(1/4" Internal)
				1, 20 1

REF.	PART	QT	Y.	PART				
NO.	NO.	В	Ç	DESCRIPTION				
55	854-0013	2	2	Bottom Air Housing Mounting (#12 Internal)				
56	853-0008	2	2	Air Housing Door Bracket Mounting (#8 External)				
57	853-0008	2	2	Vernatherm Bracket Mounting (#8 External) Optional (*)				
58	853-0016	1	1	Actautor Bearing Mounting (5/16" External) Optional (*)				
5 9	853-0013	3	3					
60	856-0006	4	4	Bracket and Pivot Moutning (1/4" External Internal) Optional (")				
	NUT, HEX							
61	870-0053	1	3	Ball Joint (10-32)				
62	864-0002	1	1	Actuating Bearing Mounting (5/16-18) Optional (*)				
63	870-0178	3	3	Speed Nut (1/4-20) Optional (*)				
64	870-0131		1	Ball Joint (10-32) with External Tooth Lockwasher				

PART REF. PART DESCRIPTION NO. NO.

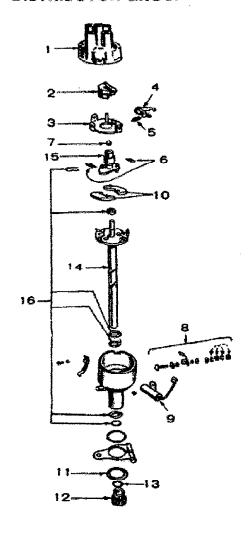
Included in OPTIONAL Air Discharge Shutter Assembly Used on fate model engines (Internal Shutter Pivot Springs).
 These parts apply to OPTIONAL Air Discharge Shutter Assembly (External Shutter Pivot Springs) used on 2 cylinder engines until the use of Shutter Assembly with internal shutter pivot springs.
 These parts apply to OPTIONAL Air Discharge Shutter Assembly (External Shutter Pivot Springs) used on 4 cylinder engines, Spec F until the use of Shutter Assembly with Internal Shutter Springs.

Shutter Springs.

+ These parts apply to OPTIONAL Air Discharge Shutter
Assembly (External Shutter Pivot Springs) used on Acylinder

engines, prior to Spec F.

DISTRIBUTOR GROUP



REF.	PART	QTY.	PART
NO.	NO.	BC	DESCRIPTION
	166-0307	\$	Distributor Assembly, Includes Gear
1	166-0235	1	Cap
2	166-0234	1	Rotor
3	166-0297	1	Plate, Breaker
4	166-0245	1	Point Set, Breaker
5	166-0061	1	Nut, Lock, Contact Screw
	166-0606	1	Spring Set, Governor Weight
7	166-0607	1	Wick Package
8	166-0608	i	Terminal Stud and Parts
_	.00 0020	•	Package
9	166-0310	1	Condenser
	166-0609	i	Weight Set, Governor
	509-0096	i	Seal, Base
	166-0303	i	Gear, Drive
	518-0216	1	Bing, Retaining
	166-0610	i	Shaft, Drive
	166-0611	i	Cam and Slop Plate
16	166-0612	1	Bearing & Parts Package
10	INV NA IS	•	MANAGEMENT AND A SHIP OF A SHIP SHIP SHIP OF THE SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP

SERVICE KITS AND MISCELLANEOUS

REF.	PART	QT	TY.	PART
NO.	NO.	B	C	DESCRIPTION
	98-1100	1	1	Decal Kit
	68-0083	1		*Gasket Kit, Engine
1	68-0084		1	*Gasket Kit, Engine
5	22-0198	1		*Overhaul Kit - Spec A through Q
5	22-0230	1		*Overhaul Kit - Begin Spec R
5	22-0196		1	"Overhaul Kit - (Magnetic Ignition) - Spec A through Q
5	22-0234		7	*Overhaul Kit - (Magnetic Ignition) - Begin Spec R
5	22-0199		1	*Overhaul Kit, (Battery Ignition) - Spec A through O
5	22-0235		1	*Overhaul Kit - (Battery Ignition) - Begin Spec R
5	25-0137	1	1	Paint, Touch-up (Green Enamel) - 16 Ounce Pressurized Can

Engines having optional continuously engaged "auto-cycle" starter, order also 168-0098 Supplementary Gasket Kit.
 NOTE: For other Kits, refer to the group for the part in question.